

**Data Compendium for the Columbia River
Comprehensive Impact Assessment**

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April 1994

Prepared for
the U.S. Department of Energy
Under Contract DE-AC06-76RLO 1830

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Summary

The Columbia River Comprehensive Impact Assessment (CRCIA), established in the 1994 amendment of the *Hanford Federal Facility Agreement and Consent Order* (often referred to as the Tri-Party Agreement, or TPA), supports the TPA milestone number M-13-80 (Submit Compendium of Existing Columbia River Contaminant Data to EPA and Ecology). The CRCIA is conducted by the Pacific Northwest Laboratory (PNL) for the U.S. Department of Energy (DOE).⁽¹⁾ The purpose of the CRCIA is to evaluate the current human and ecological risk from the Columbia River attributable to past and present activities on the Hanford Site. Human risk will be addressed for radioactive and hazardous materials over a range of river use options. Ecological risk will be evaluated relative to the health of the current river ecosystem.

The initial effort for the CRCIA is the development of a compendium of existing data on Columbia River contamination. This document provides the data compendium. It also includes a discussion of data sources, descriptions of the physical format of the data, and descriptions of the search process used to identify data.

The search for contaminant data identified approximately 4500 documents and 13 major databases that potentially contain information about contaminants in the Columbia River due to activities on the Hanford Site. As described in this document, searches for data were conducted through telephone calls, by electronic means, and through personal visits. Approximately 1750 of the documents identified in the search process are available to the DOE, Washington State Department of Ecology (Ecology), U.S. Environmental Protection Agency (EPA), and the public in the DOE Reading Room in Richland. Approximately 2050 of the documents identified in the search process were not readily available to one or more of DOE, Ecology, EPA, or members of the public. References for these documents are given in electronic format in Appendix A. Over 650 declassified titles of classified documents were recently made available by DOE. Even though the titles were declassified, many of the documents remain classified. The titles of these documents are provided in Appendix B.

Approximately 60 key documents are listed in Section 4.2. These key documents contain data or describe analyses important to evaluating the health of the Columbia River. The complete document reference lists and database identifications are provided in a series of appendixes. Because of their extensive length, several of the appendixes are provided in ASCII files on an accompanying diskette.

This data compendium identifies data locations through document references and database identification. As required by TPA Change Order number M-13-93-06, the data identified in this compendium will be made available to the Tri-Party agencies and to interested stakeholders.

This report identifies a large number of documents that may contain data about Columbia River contaminants originating at Hanford. Only a small number of the documents have been reviewed at this time to determine their relevance to conducting a human or ecological impact assessment.

(1)Pacific Northwest Laboratory is operated for the U.S. Department of Energy by Battelle Memorial Institute.

Abbreviations and Acronyms List

ATSDR	Agency for Toxic Substances and Disease Registry
BNW	Battelle, Pacific Northwest Laboratories
BPA	Bonneville Power Administration
CDC	Centers for Disease Control and Prevention
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CRCIA	Columbia River Comprehensive Impact Assessment
CRRD	Columbia River Reference Database
DEQ	Department of Environmental Quality
DOE	U.S. Department of Energy
DOE-RL	U.S. Department of Energy, Richland Operations Office
Ecology	Washington State Department of Ecology
EMDD	Environmental Monitoring Document Database
EPA	U.S. Environmental Protection Agency
ERS	Environmental Release System
HAB	Hanford Advisory Board
HEDR	Hanford Environmental Dose Reconstruction
HEIS	Hanford Environmental Information System
HEW	U.S. Department of Health, Education, and Welfare
HGIS	Hanford Geographical Information System
HIRTS	Hanford Information Resource Tracking System
HMS	Hanford Meteorological System
HWMA	Washington State Hazardous Waste Management Act of 1976
LEMIS	Liquid Effluent Monitoring Information System
NED	Northwest Environmental Database
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NTIS	National Technical Information Service
PDMS	Project and Data Management System
PNL	Pacific Northwest Laboratory
PNWD Pacific	Northwest Division
RCRA	Resource Conservation and Recovery Act of 1976
RL	Richland Operations Office
SACS	Surveillance Analysis Computer System
SESP	Surface Environmental Surveillance Project
SWITS	Solid Waste Information and Tracking System
TCD	Tank Characterization Database
TPA	Tri-Party Agreement (Hanford Federal Facility Agreement and Consent Order)
TSP	Technical Steering Panel
USGS	U.S. Geological Survey
USPHS	U.S. Public Health Service
WIDS	Waste Information Data System
WPPSS	Washington Public Power Supply System

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1.0 Introduction

1.1 Background

As a result of past practices, four areas of the Hanford Site (the 100, 200, 300, and 1100 Areas) have been included on the U.S. Environmental Protection Agency's (EPA) National Priorities List (NPL) under the *Comprehensive Environmental Response, Compensation, and Liability Act* of 1980 (CERCLA). In addition to the four NPL sites, more than 60 *Resource Conservation and Recovery Act* of 1976 (RCRA) treatment, storage, or disposal facilities will be closed or permitted to operate in accordance with RCRA regulations. To accomplish the timely cleanup of the four sites affected by past practices, the *Hanford Federal Facility Agreement and Consent Order* (often referred to as the Tri-Party Agreement, or TPA), (Ecology et al. 1989) was signed by the Washington State Department of Ecology (Ecology), EPA, and the U.S. Department of Energy (DOE).

Milestones have been adopted for the TPA that identify actions needed to ensure acceptable progress toward Hanford Site compliance with CERCLA, RCRA, and the *Washington State Hazardous Waste Management Act of 1976* (HWMA). In January 1994, DOE, EPA, and Ecology signed an agreement and action plan that resulted in a revised TPA (Ecology et al. 1994). One of the revisions (Change Order number M-13-93-06) reflects adjustments made to milestones designed to address cleanup strategies and achieve timely remedial decisions and actions concerning the Columbia River.

The Columbia River Comprehensive Impact Assessment (CRCIA), established in TPA Milestone M-13-80, will evaluate the current human and ecological risks from the Columbia River attributable to past and present activities on the Hanford Site. The CRCIA is conducted by the Pacific Northwest Laboratory (PNL) for the DOE.⁽²⁾ Human risk from exposure to radioactive and hazardous materials will be addressed for a range of river use options. Ecological risk will be evaluated relative to the health of the current river ecosystem.

The initial effort for the CRCIA is the development of a compendium of existing data on Columbia River contamination. The data compendium activity will be followed by a workshop that will discuss the data on contaminants in the Columbia River from Hanford Site operations and the potential human health and environmental impacts from these contaminants. The affected American Indian Tribes, the States of Oregon and Washington, the Hanford Advisory Board (HAB), and the public will be invited to attend the workshop.

Subsequently, the data that currently exist will be collected and made available to Ecology, and EPA. A copy of the data will be transmitted to the DOE Reading Room in Richland, or in the case of databases (see Appendix C), an access mechanism will be defined. A determination will be made as to whether human health and environmental risk assessments can be performed with existing data. The TPA milestone requires reporting of existing data on Hanford-derived contamination to the Columbia River both in the Hanford Reach and downstream to the ocean. This requirement sets the geographic constraints on the data search.

(2)Pacific Northwest Laboratory is operated for the U.S. Department of Energy by Battelle Memorial Institute.

1.2 Purpose

This document provides a data compendium of documents and databases describing contaminants released to the Columbia River due to activities at the Hanford site. This data compendium was developed in support of TPA Milestone M-13-80. It includes a discussion of data sources, descriptions of the physical format of the data, and discussions of the search processes used to identify data.

A number of key documents are listed in Section 4.2. These key documents are a subset of the approximately 4500 documents have been identified as potentially containing data about contamination in the Columbia River. References for all of these documents are given in a series of appendixes grouped by availability of the document to the public. Information about electronic databases is also given in an appendix.

As discussed in Change Order number M-13-93-06, the data identified in this report will be made available to the TPA agencies and to interested stakeholders. This compendium also serves as the forum for introducing the CRCIA project plans to manage the document references and data used in the study and to make the data available to the public.

Milestone M-13-80 establishes the CRCIA to evaluate the current human and ecological risks from exposure to contaminants in the Columbia River that are attributable to past and present activities on the Hanford Site. Historical data for the site are included in this data compendium to provide the information needed to establish a list of contaminants that may have had, or still have, impacts on human health or the ecosystem of the river.

1.3 Short History of Site Operations

The DOE operated nine production reactors (B, C, KW, KE, D, DR, H, F, and N) between 1944 and 1971 along the Hanford Reach of the Columbia River (see Figure 1). The Hanford Reach of the Columbia River extends 51 miles downstream from Priest Rapids Dam to the head of the McNary Pool just north of the city of Richland. Eight of these reactors have been deactivated and retired. Except for the N reactor, all reactors used once-through cooling systems that released radionuclides, process chemicals, including chemicals that inhibited corrosion, and heated water into the river. Radionuclides (such as zinc-65) resulting from operation and cooling of the reactors have been measured in both water and biota along the Columbia River from the Hanford Reach to the ocean.

The N reactor, which used a closed-loop primary cooling system, operated between 1963 and 1987. It has been defueled and is in the process of deactivation. While in operation, this reactor discharged a significant amount of heat to the river, but a lesser amount of radioactivity was associated with its effluent than with the other eight reactors.

Figure 1.1. Map of the Hanford Site

Direct discharge of radionuclides to the river by the DOE reactors was virtually eliminated when the last of the reactors (KE) using a once-through cooling system was shut down in 1971. Similarly, the discharge of chemical contaminants was significantly reduced. At present, relatively small amounts of contaminated ground water continue to discharge through seeps and springs to the river (Dirkes 1994, DOE-RL 1993).

Various contaminants are present in the Columbia River environs as a result of past and present operations at Hanford, as well as from other sources. Past operations of Hanford's processing plants (for example, B and T plants, Plutonium Uranium Extraction Plant, and Plutonium Finishing Plant) resulted in contaminated effluents, some of which are making or have made their way to the river through the ground water. Relatively low concentrations of tritium, strontium-90, iodine-129, and natural uranium have been consistently measured in the Columbia River water. Constituents from these effluents, and others such as nitrates and chromium, have been monitored in springs, seeps, sediments, vegetation, and biota associated with the Hanford Reach.

2.0 Data Collection Activities

Many data relevant to the Columbia River environment have been collected since the start-up of Hanford operations. For a variety of purposes environmental measurements and observations have been performed by numerous organizations, outside the Hanford domain as well as within. This section describes the known monitoring activities that have been conducted, are currently being conducted, or will be conducted in the future.

2.1 Historical Data Collection

Site contractors began initial monitoring at the Hanford Site in 1945. Also, beginning about 1950, offsite federal and state agencies began monitoring programs and studies at river locations downstream of Hanford, including the coastal areas.

2.1.1 Onsite Monitoring

The historical monitoring on the Hanford Site can be divided into three periods: 1945 through 1957, 1958 through 1971, and 1972 to the present. These times correspond reasonably well with periods of 1) significant developments in analytical techniques, 2) programmatic modifications that resulted in changes in the rationale for and purposes of the programs, and 3) sequential reactor shutdowns that resulted in significant reductions in contaminant loading to the river (Walters et al. 1992).

2.1.1.1 Monitoring from 1945 through 1957

Initial monitoring of Columbia River water began early in 1945, following the startup of the first three reactors (100-B, 100-D, and 100-F). The primary objective was the detection, but not quantification, of reactor-created radionuclides. However, shortly after the startup of reactors, the need to measure radionuclide quantities in the river was recognized, and routine sampling began.

The first sampling locations selected were at the 100-B, 100-D, and 100-F areas, the Hanford Townsite, the 300 Area, and Richland. A station at Pasco was added in 1945. From the late 1940s through 1957, the Columbia River monitoring program was expanded to downstream locations, providing a significant amount of data on total beta activities. Monitoring for specific radionuclides was begun about the end of this period. The sampling locations were extended downstream to the Portland, Oregon vicinity. This included key locations at McNary Reservoir and Dam, Celilo, The Dalles and Hood River, Oregon, and Bonneville Dam. Sampling of the Yakima River near its confluence with the Columbia River and at the mouth of the Snake River were also added.

Monitoring of Columbia River sediment was initiated in 1948. Through 1957, sediment samples were routinely collected at various locations that included shoreline and riverbed samples. The results were reported as measurements of total beta activity. Most of the sampling locations were in the Hanford Reach down to McNary Dam. The Yakima and Snake river confluences were included. The farthest downstream sampling location was at Paterson, Washington about 20 river miles below McNary Dam.

Before and during the early days of operations at Hanford, concern was voiced about the impact of discharging radioactive material into the Columbia River and the uptake of such material by fish. As a result numerous special studies, both laboratory and in-stream, were established during the early operating period. Routine sampling of Columbia River whitefish at Hanford began in 1950. Whitefish were chosen because they were available year-round and had some of the highest concentration factors of radionuclides (Walters et al. 1992). Numerous other species were gradually added to the monitoring program (for example, trout, salmon, bass, perch). The sampling was confined to areas upstream and downstream of the operating facilities and at areas popular with local fishermen.

Routine monitoring for radioactive substances of various shellfish, primarily oysters, was conducted in the marine environment near the mouth of the Columbia River. Willapa Bay, the major oyster-growing area near the river mouth, was chosen as the primary sample collection site. No known monitoring was conducted for other hazardous substances in this time period.

2.1.1.2 Monitoring from 1958 through 1971

During the sampling period of 1945 through 1958, analytical capabilities were limited and total alpha and total gross beta measurements were the only data available. By 1958, gamma energy spectroscopy was available and analysis for specific radionuclides was possible. Also, by 1957, the purpose of the river monitoring program had changed from detection of Hanford-derived contaminants to quantification and dose evaluation. This change resulted in a modified program that optimized the amount and type of river data collected. The program focused on the potential radiation doses received by the public living near and using the Columbia River. Several of the sampling stations were discontinued, but the length of river studied still extended to Portland.

Routine monitoring from 1958 through 1971 provided an indication of the isotopic burden of various radionuclides in the river resulting from Hanford operations. The monitoring program established in the early 1960s is the predecessor of today's Surface Environmental Surveillance Project (SESP) surface water monitoring task. Locations upstream of Hanford were established so the contribution of Hanford releases could be distinguished from weapons testing fallout. A sampling station was also established at the Richland water supply intake. Another modification was the initiation of composite sampling to replace the grab sampling method. This new method provided more accurate weekly estimates of radionuclide concentrations and provided some assurance that short-term elevated releases (such as fuel element failures) were observed. Continuous sampling systems (filter/resin) were put into service in later years to increase the sample size for detection of radionuclides at low concentrations. Radionuclides of primary interest in river water were tritium, sodium-24, phosphorus-32, chromium-51, zinc-65, arsenic-76, strontium-90, iodine-131, and cesium-137.

For the 1958 through 1971 period, sediment was sampled only in 1959. Routine sampling of shoreline and river-bed sediments was discontinued in 1960 because the data were not useful in the direct calculation of doses to humans.

The sampling of fish from the Columbia River and shellfish from coastal areas near the river mouth remained in the program for the period 1958 through 1971. Whitefish remained the primary species sampled with the sampling locations identified as areas. The areas were upstream of and immediately downstream from the operating reactors, and downstream of Hanford at areas known to be frequented by the local fisherman. Oysters harvested in Willapa Bay were obtained from a commercial

market in Portland, Oregon. Radionuclides of interest in fish and shellfish were zinc-65 and phosphorus-32. No known monitoring was conducted for other hazardous substances in this time period.

2.1.1.3 Monitoring from 1972 to 1994

At the present time, samples of river water continue to be collected routinely at several locations. All sampling stations are within the Hanford Reach, except the station at the Bonneville Dam. The primary interest of the monitoring program since its restructuring in the 1960s has been the calculation of dose to humans using or consuming river water. Water samples are analyzed for gross alpha, gross beta, gamma emitters, tritium, strontium-90, technetium-99, iodine-129, isotopic plutonium, and isotopic uranium.

Routine sediment sampling was reestablished in 1988 with the initial sampling behind Priest Rapids Dam and McNary Dam. The program was expanded to include locations at White Bluffs slough, the 100-F Area slough, the Hanford slough and Richland. In contrast to the water sampling, sediment samples are analyzed for gamma emitters, tritium, strontium-90, isotopic plutonium, and isotopic uranium.

The sampling of various fish continues to the present. Whitefish is still the primary species sought. By 1972, all of the reactors with a single-pass cooling system had been shut down, leading to a decline of radioactivity in the Columbia River. The number and diversity of fish samples has also declined steadily over the years since 1972 (Cushing et al. 1981). The radionuclides of concern include strontium-90, tritium, and several gamma emitters. The routine sampling of oysters from Willapa Bay was discontinued in 1978 because the remaining zinc-65 had decayed.

Recent hazardous wastes regulatory requirements and a changing mission at Hanford have increased concerns about hazardous chemical contaminants released to the Columbia River through bankline springs. During the late 1980s, initial investigations indicated that additional information on the type, concentrations, transport, fate, and environmental significance of chemical contaminants in the river was needed. Therefore, the chemical monitoring element of the Columbia River Monitoring Program was expanded to include metals, anions, and volatile organic compounds. Water sampling for these constituents began during the last four months of 1991. Sampling was performed quarterly during the following years at Vernita Bridge (upstream of Hanford) and at the Richland pump house (Dirkes et al. 1993).

2.1.2 Offsite Monitoring

The first comprehensive offsite radiological monitoring of the Columbia River was conducted by the U.S. Public Health Service (USPHS) beginning in 1951 and continuing into 1953. The USPHS monitored water quality and biota, reporting the results as gross beta. The sampling was limited to the river section between Will's Ranch (near 100-B reactor) and Paterson, Washington, downstream of McNary Dam. Brief, exploratory surveys were conducted at Bonneville Dam and Portland, Oregon. These surveys provided the first independent comparison of Hanford data (Robeck et al. 1954). Offsite sampling locations are shown on Figure 2.1.

Figure 2.1. Columbia River Sampling Locations - Washington and Oregon

Beginning in the early 1960s, offsite agencies began a series of studies and monitoring programs that involved the states of Washington and Oregon, the University of Washington, Oregon State University, and the U.S. Geological Survey. Most of the data are scattered in numerous reports and specific to a particular limited study. The most useful data were those radionuclide concentrations measured in fish and shellfish. The one comprehensive database was collected by the Oregon State Department of Health. From 1961 through 1977, Columbia River water, as well as estuarine and coastal fish and shellfish, was sampled from The Dalles downstream to the mouth of the river. Since 1977, the program has been conducted each year but at a much reduced level of effort. Sampling was primarily conducted on a quarterly basis for each year. Some sediment samples were included. The radionuclides of interest were zinc-65 and chromium-51, although other radionuclides were considered. The U.S. Geological Survey collaborated with Hanford contractors during the early to mid-1960s, but did not collect data on a continuing basis. The overall objective of the studies was to determine the transport and deposition of Hanford radionuclides along the Columbia River.

2.2 Data Collection Currently in Progress

Recently, a survey was conducted of various agencies to determine what data collection activities are either currently being conducted or are planned for the future. Most of the current activities are ongoing and will continue. The following is a summary of the data collection activities that were discovered in this investigation.

2.2.1 Surface Environmental Surveillance Project

This project at Pacific Northwest Laboratory (PNL) includes sampling of river water, sediments, river banks, springs, fish, clams, crayfish, and riparian vegetation. Shoreline radiation dosimeters continuously collect monitoring data for radionuclides only. The data are reported annually with spreadsheets available electronically (see Appendix C). The near-river ground water contaminants are monitored to characterize discharge (volume) to the river and ground water/river interaction.

2.2.2 Salmon Census

A census is conducted periodically by PNL using aerial surveys to monitor numbers of spawning fall chinook salmon. PNL also conducts radio telemetry studies to characterize their distribution and pre-spawning behavior. A database is maintained that contains information on annual spawning surveys made since 1948.

2.2.3 Wildlife Resources

This project at PNL collects data on eagle abundance and salmon spawning each fall, goose nesting each spring, and riparian plant species each spring. The areas of interest are the islands and riparian areas of the Hanford Reach.

2.2.4 100 Area Monitoring

Monitoring is conducted by DOE contractors in the 100 Area to study the effluent from the nuclear facilities, particularly the seeps and discharges from buildings, drain fields, and trenches. Springs and near-river soils, vegetation, and the ground water are monitored during the late winter and early spring (high flow periods), through the summer, and into the fall. Some small animal collection is done in accordance with their availability; for example, mice may be collected when they are in the vicinity of the trenches. Near-river studies of soil and vegetation (including mulberry trees) have been done near the 100 Area facilities. Data from these activities are reported annually and the associated databases are available electronically.

Several remedial investigation/feasibility study reports have been released for the CERCLA 300-FF-5 source and ground water operable units. The reports describe river and spring sampling, ground water well data, biota (both aquatic and riparian zone) sampling of vegetation, and small animal sampling.

2.2.5 Washington State Department of Health

The Washington State Department of Health issues permits and inspects municipal water systems. They monitor compliance with drinking water standards for both radioactive and non-radioactive materials and also conduct an Environmental Radiation Monitoring Program (Washington State Department of Health 1993). The Environmental Radiation Monitoring Program includes monitoring surface water, sediments, and fish. Under the direction of this program, the cities of Richland, Pasco, and Kennewick, and other cities downstream draw part of their water supplies from the Columbia River.

2.2.6 Oregon Public Drinking Water Monitoring

Oregon public drinking water intake locations (such as James River, St. Helens, and Rainier) are sampled for bacteria, radionuclides, asbestos, and chemicals (common ions, pesticides, lead and copper, and volatile organic compounds). The sampling frequency may vary depending on population of the city. For example, the asbestos sampling frequency can vary from three to nine years, depending on city size. It is unclear if the samples are collected from the river at the point of intake or from the distribution system, following some treatment.

2.2.7 Washington Public Power Supply System

The Washington Public Power Supply System (WPPSS) annually reports the results of radiological impact on the environment near the Number 2 nuclear reactor. Air, water, milk, soil sediments, fish, and garden produce have been collected on an annual basis. The power plant is approximately three miles from the Columbia River, so most environmental samples focus on the near-plant impacts and not on the river. However, water and sediments are sampled about two miles upstream and downstream from river intake and discharge points. Sampling of migrating fish is carried out in May and October.

2.2.8 U.S. Geological Survey

The U.S. Geological Survey (USGS) does hourly monitoring at the Vernita Bridge for surface water flow, maximum, minimum, and mean temperatures, as well as collection of five samples per year to characterize water quality: specific conductance, pH, dissolved oxygen, turbidity, hardness, and bacteria. The station also records discharge flows from the Priest Rapids Dam. At the Richland Bridge Pumping Plant, 4.8 miles upstream from the confluence of the Columbia River with the Yakima, hourly temperature measurements have been recorded, and some water quality parameters are measured. In 1994, hourly water temperature recordings analyses for metals were discontinued at both stations. Below the Hanford Reach, the following measurements are made by the USGS:

- Stevenson, Washington - temperature data
- Washougal, Washington - Stage recording.
- The Dalles, Oregon - discharge data
- Bonneville Dam - Stage recording (elevation)
- Warrendale, Oregon - Water quality

The USGS is also currently studying Columbia River dioxins, furans, and heavy metals that originate at the Trail, British Columbia, lead smelting complex.

2.2.9 Lower Columbia Bi-State Study

This study was designed to collect baseline data needed for an evaluation of siting potential pulp mills on the lower Columbia. The study, begun in 1991, is ongoing and addresses the section of the river from Bonneville Dam downstream. Samples were collected to determine concentrations of dioxin, water quality parameters, nutrients, toxic metals, and radionuclides. The Washington State Department of Ecology and the Oregon Department of Environmental Quality (DEQ) are cooperating on the performance of the work. This multiphase ongoing reconnaissance study:

1) evaluates the river condition (water quality) based on existing information and data. In order to assess the current quality of the Columbia, two one-time studies were made of the river below the Bonneville Dam. The USGS, Ecology, and Oregon DEQ have cooperated on this activity. A report has been written.

2) discusses the emission sources that discharge to the lower Columbia. A report has been written.

3) provides for monthly monitoring of the river at nine locations (five are directly on the river). Among the parameters are water quality, suspended solids, polyaromatic hydrocarbons, common ions, trace elements, and heavy metals. Data collection will finish at the end of 1994.

4) assesses human health risks so far as they relate to the intake of fish. Based on data collection through 1994, tissues from resident fish (bass) and migrating fish (salmon) will be collected to determine potential human health risks. This work will be reported after June 1995.

5) assesses fish and wildlife habitats and risks. Specific ecological effects will be studied using tissue samples from mink, otter, bald eagles, and from fish. This work will be reported after June 1995.

2.2.10 Juvenile Salmon Habitat

The National Marine Fisheries Agency studied juvenile salmon habitat from 1965 through 1993. The study goal was to investigate changes in migration and survival of juvenile fish as a result of Columbia River draw-down. Some wildlife studies have also been conducted at and below the John Day Reservoir.

2.3 Planned Data Collection

Many of the programs described in Section 2.2 will continue to collect data in the future. This is noted in Table 1. In addition, several new proposed data collection activities were discovered during the data collection discussed previously. The following sections describe special studies that may be conducted in the future.

2.3.1 U.S. Geological Survey

The USGS may perform the following three studies:

- National Water Quality Assessment - an intensive study of the Columbia Basin that will sample pesticides and characterize several other chemicals. A contact is Stuart McKenzie, USGS, Portland.
- National Biological Survey - physical data will be collected to model spawning habits of (juvenile) fish and the effects of draw-down, for example, on the Snake and Columbia rivers.

- In conjunction with the National Biological Survey, may perform 3-dimensional water temperature monitoring on the Snake and Columbia rivers. The study would determine how fish respond to changes in temperature and water volume as a result of reservoir draw-down.

2.3.2 National Marine Fisheries Agency

The National Marine Fisheries Agency's Point Adams Biological Field Station is proposing long-term collection of physical, chemical, and biological data for the lower Columbia River. Emphasis would be on limnology, benthic organisms, zooplankton, and water quality. The goal is to provide baseline information to detect long-term perturbations in the river, with the capability to note changes associated even with drought and other major climate changes.

2.3.3 Agency for Toxic Substances and Disease Registry

The goal for the Agency for Toxic Substances and Disease Registry (ATSDR) is to perform health risk assessments in areas of concern and to perform follow-up evaluations, health, and epidemiology studies where necessary. An ATSDR assessment reviews available contaminant concentrations and exposure pathways to determine whether exposures are significant enough to trigger adverse health effects. When the probability of risk is present, ATSDR may collect clinical samples. ATSDR/CDC risk assessment deals with public health, whereas EPA risk assessment focuses on the need for remedial action and the cleanliness of a site.

Currently the ATSDR is participating in a health assessment study for the 1100 Area at the Hanford Site (Project Officer: Joanne Friedman, Atlanta, GA, 404-639-6068) with the Fred Hutchinson Cancer Center in Seattle. They propose to study potential health risks: 1) at all four Hanford NPL sites, 2) associated with site-wide ground water contaminants, and 3) as they impact the Columbia River. In addition to risk assessments, ATSDR has organized an advisory health council of native American and publically nominated members to incorporate their concerns into the direction of ATSDR/CDC health studies at Hanford.

Table 2.1. Current and Future Columbia River Sampling Activities

<u>Project Name</u>	<u>Funding Agency (DOE, EPA, Ecology, etc.)</u>	<u>Organization Collecting Data</u>	<u>Monitoring (Current/Planned)</u>	<u>Columbia River Locations</u>	<u>Data: Form, Location, Availability</u>
Surface Environmental Surveillance Project	DOE-RL	PNL (Surface Monitoring Project)	Current: on-going since 1945	Priest Rapids Dam to McNary Dam (Hanford Reach)	<i>Annual Environmental Report</i> , for example: PNL-8682 for 1992
Groundwater Environmental Surveillance Project	DOE-RL	PNL (Groundwater Monitoring Project)	On-going	Hanford Reach but not the Columbia River	<i>Annual Environmental Report</i>
Salmon Census	BPA/EPA (CERCLA)	PNL	Current: on-going since 1948	Hanford Reach	Periodic technical reports, journal articles, and presentations
Wildlife Resources: eagle, goose census; salmon spawning; riparian plant species	DOE-RL	PNL- Terrestrial Ecology	Current: on-going	Hanford Reach: islands and riparian areas	Annual reporting and technical publications
100 Area Operations Environmental Monitoring	DOE-RL	Westinghouse	On-going	Hanford Reach near 100 Areas	Annual reports
100 Area Operable Unit Studies	DOE/EPA	Westinghouse	Some limited field investigations are on-going for F and N areas	Hanford Reach in 100 Areas	Westinghouse reports
300 Area Operable Unit studies	DOE-RL	Westinghouse	Ground water as needed	Ground water and Columbia River water	Remedial investigation or feasibility study reports as developed

Table 2.1. (contd)

<u>Project Name</u>	<u>Funding Agency (DOE, EPA, Ecology, etc.)</u>	<u>Organization Collecting Data</u>	<u>Monitoring (Current/Planned)</u>	<u>Columbia River Locations</u>	<u>Data: Form, Location, Availability</u>
NPDES Permits (Hanford Site)	DOE-RL	Westinghouse 100 and 300 Areas	On-going	At points of industrial and municipal discharge	Annual reports
NPDES Permits (Columbia River)	WA Ecology; OR DEQ; EPA	637 permits	On-going	At points of industrial and municipal discharge	WA and OR state agency reports
Hanford Oversight, Washington Department of Ecology	Washington Dept. of Ecology	Ecology/DOE	On-going	Hanford Reach	Ecology reports
Drinking Water Quality and River Quality, Hanford Oversight, Washington Department of Health	Washington Dept. of Health (oversight)	WA Dept. of Health	On-going	Benton County	
Drinking water quality, Oregon State Division of Health	Oregon State Health	Oregon State Health	On-going	South banks of Columbia River at municipal drinking water intakes	Oregon Department of Health
Oregon State Health Division, Radiation Control Section	Oregon State Health	Oregon State Health	On-going	Columbia River from McNary Dam downward	Toombs Reports
Radiological Environmental Monitoring Program	Washington Public Power Supply System	Power Supply	On-going	Hanford Reach of River in vicinity of WPPSS	Annual report for Nuclear Plant #2

Table 2.1. (contd)

<u>Project Name</u>	<u>Funding Agency (DOE, EPA, Ecology, etc.)</u>	<u>Organization Collecting Data</u>	<u>Monitoring (Current/Planned)</u>	<u>Columbia River Locations</u>	<u>Data: Form, Location, Availability</u>
River Flow Monitoring, Corp of Engineers	Corp of Engineers	Corp of Engineers	On-going	Extent of Columbia River	Annual reports
River Flow Monitoring, USGS	USGS/DOE at Vernita; DOE at Richland	U.S. Geological Survey	On-going	Hanford Reach	Annual reports
National Water Quality Monitoring, USGS	USGS/DOE at Vernita; DOE at Richland	U.S. Geological Survey	On-going	Hanford Reach	Annual reports
FDR Lake Study, British Columbia smelter effluent to Columbia River	USGS, EPA	USGS	On-going	Northern Washington area of Columbia River	USGS Reports
Lower Columbia Bi-State Study (OR/WA/EPA)	Washington State Oregon State EPA	Tetra Tech	On-going	Lower Columbia River	Various reports
EPA Oversight, Hanford Reach	EPA, CERCLA	EPA	On-going	Hanford Reach	Reports as provided
National Marine Fisheries	BPA/Army Corp of Engineers	National Marine Fisheries	On-going	Lower Columbia to and including the Snake River	Reports as provided
National Biological Survey (formerly Fish and Wildlife Service)		National Biological Survey			
National Park Service					

Table 2.1. (contd)

<u>Project Name</u>	<u>Funding Agency (DOE, EPA, Ecology, etc.)</u>	<u>Organization Collecting Data</u>	<u>Monitoring (Current/Planned)</u>	<u>Columbia River Locations</u>	<u>Data: Form, Location, Availability</u>
Confederated Tribes of the Umatilla Indian Reservation	DOE/CDC	Confederated Tribes	On-going		Confederated Tribes
Columbia River Inter-Tribal Fish Commission	DOE/CDC	Confederated Tribes	On-going		Confederated Tribes

Note: Some cells are blank because the information has not been verified.

3.0 Search Process for Compendium Data

This section describes the process used to support a comprehensive search for existing environmental data. Searches were divided into onsite and offsite sources of information. Many of the searches were performed electronically in databases of references. The keywords used for automated searches are given, and a summary of all searches conducted is provided. Reference information for documents identified in these searches was downloaded into a database developed by the CRCIA to manage the reference information.

In addition to reference information, the searches attempted to identify the document location. This location information is used to divide the references into two major sets, those already in the public domain (the DOE Reading Room in Richland), and those not in the DOE Reading Room but available to the public. The entire DOE Reading Room database, containing over 13,000 records, was loaded into the CRCIA project reference database. This database was used to identify documents already accessible to the public. If a copy of the document is in the DOE Reading Room, the document location will be identified as the DOE Reading Room, although copies may be found at other locations.

3.1 Definition of Search Keywords

Sets of keywords were developed for use in identifying information relevant to the CRCIA. These keywords are identified in this section. The parenthetical entries on some entries in the following keyword lists indicate alternative spellings or an expanded set of keywords under one topic.

3.1.1 Onsite Search

A basic set of keywords was used to identify the information that dealt specifically with Hanford. Other keywords were added to broaden the search. All searches were done on combinations of keywords and duplicate document references were removed before the reference was incorporated into the CRCIA reference database. The basic set of keywords are:

- Columbia River
- Hanford Reach
- Hanford
- effluent
- contaminant (all forms)
- sample (all forms)
- data
- database
- numeric.

The search was enlarged with broader terms to include the keywords:

- aquatic
- biota (biotic)
- Canada(ian)
- chemical(s)

- Columbia (river, riverbank)
- compilation
- contaminant(s, ed)
- effluent(s)
- fish (salmon, trout, steelhead)
- groundwater
- impact
- inorganic
- island
- limited field investigation
- migration
- organ
- outfall
- radioactive (radioactivity)
- radionuclide
- reach
- risk
- sediment(s)
- shore (shoreline)
- source
- spring (100-N)
- surface water
- thermal
- water (water quality).

3.1.2 Offsite Search

The set of keywords for the onsite searches was modified for use in identifying information from offsite sources. These searches dropped the keyword Hanford and Hanford Reach from the onsite list, and added keywords meant to identify mining, other industrial, and agricultural uses of the river. Keywords used to specify general topics of interest are:

- water quality database
- in-stream sampling
- nonpoint source pollution
- point source pollution
- pollution assessment
- discharge
- dredge disposal
- estuaries
- environmental studies
- water chemistry (carbon dioxide, fluoride, monitoring methods, nitrogen, oxygen, particulate carbon, phosphorus, salinity)
- oil.

Keywords used to identify mining uses of the river are:

- mine wastes
- mine drainage
- heavy metals
- surface mining
- ore-processing wastes
- acidic wastes
- copper mining
- mine tailings
- uranium mining
- mercury
- nickel mining
- zinc mining
- remedial action
- hazardous waste.

Keywords used to identify other industrial uses and agricultural uses of the river are:

- sawmill wastes
- paper mill wastes
- pulp mill wastes/sludge
- vermiculite refining
- phosphate/phosphate operations
- fertilizers.

Miscellaneous keywords used to identify contaminant information are:

- bacterial contamination
- septic tank effluent
- pesticides
- herbicides
- toxic wastes
- dioxin
- PCBs
- radioactive fallout
- radionuclides
- radiological
- radioactivity detection
- removal of radioactivity
- pH
- effects of pollution
- sediment
- sediment composition analysis
- suspended sediment
- sediment transport.

Keywords used to include information about the major tributaries of the Columbia River are:

- Yakima River Basin
- Spokane River Basin
- Okanogan River Basin
- Snake River Basin
- Umatilla River
- Deschutes River
- Willamette River.

3.2 Summary of Searches

The information searches performed for the CRCIA were divided into onsite and offsite searches. Almost all onsite searches involved sources that were funded by DOE. Almost all offsite searches involved non-DOE sources of information.

3.2.1 Onsite Searches

Numerous searches were executed for onsite information sources. Many computerized cataloging systems are available for onsite information repositories. Where possible, keyword searches were performed electronically, using the keywords defined above.

3.2.1.1 DOE Reading Room, Richland, Washington

The DOE Reading Room database is a focal point for the data gathering effort on the Data Compendium. A keyword search using the words Columbia River was initiated with 478 documents listed. A complete keyword search resulted in thousands of entries.

3.2.1.2 Hanford Technical Library

A comprehensive search was conducted at the Hanford Technical Library using the keywords identified previously. The following files and databases were searched:

- Energy Science Technologies 1974-1994 (Dialog Info. Services.)
- Nuclear Science Abstracts 1948-1976 (Dialog Info. Services.)
- INSPEC 1969-1994 (Institution of Electrical Engineers)
- Ei Compendex*Plus 1970-1994 (Engineering Info.)
- NTIS 1964-1994 (National Technical Info. Services.)
- Water Resources Abstracts (Dialog Info Services.)
- Enviroline 1970-1993 (CIS, Inc.)
- Env. Bib. 1974-1993 (Environmental Bibliographies)
- Energyline 1970-1993 (CIS, Inc.)
- WATERNET 1971-1993 (American Water Works Assoc.)
- Aquatic Sci. & Fisheries Abs. (Cambridge Science Abstracts)
- FLUIDEX 1973-1994
- GeoRef 1785-1994 (American Geological Institute)
- GEOBASE 1980-1994 (Elsevier Science Ltd.)
- BIOSIS Previews 1969-1994 (BIOSIS)
- CA Search 1967-1993 (American Chemical Society)

3.2.1.3 Hanford Technical Reports

A keyword search was conducted with the Hanford Technical Reports database. The Information Resource Tracking System master database used for the HEDR Project data gathering effort was obtained in both electronic and paper forms. Each of these 7000 records was added to the CRCIA reference database, but only if it was not a duplicate of an existing reference.

Over 650 declassified titles of documents were recently made available by DOE. These titles are included in Appendix B. In addition, 12 documents relating to historical studies of the Yakima River have been released.

The DOE contract allows Battelle, Pacific Northwest Laboratories (BNW) to conduct private business in addition to government business. Reports have been generated from privately-funded projects at BNW that contain information related to the health of the Columbia River. These non-DOE products become the property of the funding organization. A request will be made to the sponsoring agency for release approval when such private work, that may be relevant to the CRCIA, is identified.

3.2.1.4 Environmental Restoration Program Information Center

To ensure proper focus on Columbia River, a massive keyword search was executed. The Environmental Restoration Program Information Center includes multiple databases relating to Westinghouse Hanford Company and all preceding maintenance and operations contractors on the Hanford Site. The databases that were searched for the compendium are the Environmental Data Management Center and the Basalt Waste Isolation Project. More than 30,000 records were searched. This included letters and memos with and without attachments. Sampling data was also included in the search.

3.2.1.5 Administrative Record Center

The Administrative Record Center is operated for DOE to house all TPA documents that are in the public review process. This center is part of the Environmental Restoration Program Information Center. A keyword search was also executed on documents in the Administrative Record Center. Documents maintained there are transferred to the DOE Reading Room. A small number of documents were identified that are in the public review, comment, and transfer to the DOE Reading Room process.

3.2.1.6 Westinghouse Central Files

Westinghouse Central Files maintains records of all DOE and Westinghouse Hanford Company documents that are produced. A keyword search was conducted on all information that is electronically available.

A search was conducted of historical documents (1987 and earlier) related to past management and operations contractors (United Nuclear Inc., Douglas United Nuclear, ISOCHEM, General Electric, du Pont, and Atlantic-Richfield Hanford Company). Between 5000 and 10,000 card catalog entries of these historical documents are not in any electronic reference database. A spot check search was conducted on these documents. Approximately 2500 cards were examined and about 50 references were gathered as a result.

3.2.1.7 NPDES Permits

The DOE maintains an National Pollutant Discharge Elimination System (NPDES) permit issued by the EPA for up to eight nonradioactive discharge points on the Hanford Site. Two of these points are at the 100 K Area, five are at the 100 N Area, and one is at the 300 Area.

3.2.1.8 DOE Records Holding Area

The DOE maintains a records holding area at Hanford that contains records from most projects conducted on the Hanford site. These records contain such items as: project log books, notebooks, correspondence, lab results, and reports to clients. These records are mostly stored in boxes, with little information being kept on the contents of each box. When space is required, the boxes are transferred to a federal storage facility in Seattle. The Hanford records holding center contains about 40,000 boxes of records, and the Seattle Records Holding Area contains over 500,000 boxes.

No search for information was made in the records holding area. Over the last seven years the Technical Steering Panel (TSP) for the HEDR project has conducted random physical searches of the records in the Seattle storage facility. Panel members were interested in obtaining information to assist in estimating the amount of radioactive materials released from Hanford from 1944 through 1992. Dr. B. Shleien of the TSP is currently preparing an annotated bibliography of documents reviewed for the HEDR project. Based on the search by the TSP, and the fact that monitoring programs are currently being conducted, no data located in a new search of the records holding area is expected to change the conclusions reached in a study concerned with current impacts of past and current releases.

3.2.1.9 Washington Public Power Supply System

The WPPSS maintains an information center that was searched electronically. The WPPSS facility contains over 500,000 entries. Only a few documents of interest were located.

3.2.2 Offsite Searches

After leaving Canada, the mainstem Columbia River flows only through the states of Washington and Oregon, and the potential for Columbia River water use is within those state boundaries. Other states would not be expected to possess or maintain large databases of Columbia River data, but may posses databases for tributary systems. The Snake River, the largest tributary system of the Columbia River, drains most of Idaho, which includes the Idaho National Engineering Laboratory, and a portion of western Montana.

The most complete historical offsite monitoring databases for the Columbia River below Hanford are from the state health agencies of Washington and Oregon. The monitoring continues on an annual basis, but the amount of data is limited to radionuclides and locations of specific interest. The state universities do not maintain any databases, but do retain reports of various river and coastal research studies. The USGS maintains a river gauging database that includes some water quality measurements. This database is publicly available through their agency offices or the commercially-available EARTHINFO computerized system.

3.2.2.1 Hanford Technical Library

The initial offsite data search was conducted with assistance from staff at the Hanford Technical Library. The keyword list did not include the word Hanford or other words specific to the Hanford Site. However, words such as

radiological, radioactive fallout, and radionuclide were included. The word list focused on words associated with the mining and paper mill industries and the use of agricultural chemicals. Words that are unique to river water quality data collection programs were included. A separate string of key words identified seven primary tributary systems of the Columbia River.

The search was begun by scanning 16 reference material data files considering only the words Columbia River. Using those results, other key words were systematically included in the search, except for the seven river basin names. Upon completion of the keyword search (minus the river basins), a separate search was conducted for each river basin. All duplicate records were omitted in the final listing. Other efforts will be directed toward reviewing the search results and expanding the offsite river databases.

Data files included in the Hanford Technical Library search were:

- Energy Scitech 1974-1994 (Dialog Info. Services.)
- Nuclear Science Abstracts 1948-1976 (Dialog Info. Services.)
- INSPEC 1969-1994 (Institution of Electrical Engineers)
- Ei Compendex Plus (TM) 1970-1994 (Engineering Info Inc.)
- Water Resource Abstracts 1968-1993 (Dialog Info. Services.)
- Enviroline (R) 1970-1993 (CIS, Inc.)
- Environmental Bibliographies 1974-1993
- Energyline (R) 1970-1993 (CIS, Inc.)
- WATERNET (TM) 1971-1993 (American Water Works Association)
- Aquatic Science & Fisheries Abstracts 1979-1994 (Cambridge Science Abstracts)
- FLUIDEX 1973-1994
- Georef 1785-1994 (American Geological Institute)
- GEOBASE (TM) 1980-1994 (Elsevier Science Ltd.)
- CA Search (R) 1967-1994 (American Chemical Society)
- BIOSIS PREVIEWS(R) 1969-1994 (BIOSIS)
- NTIS 1964-1994 (National Technical Information Services)

3.2.2.2 NPDES Permits Not at Hanford

The Washington State Department of Ecology provided a list of all (excluding the northwest region of the state and Puget Sound) NPDES permits issued in the State of Washington. Discharge data may be requested for any of the permitted discharge points. The listing includes municipal, commercial, and industrial operations. A list was also provided for state-issued waste water permits. A total of 637 NPDES discharge sites are located in the State of Washington.

Information on the NPDES permits for Oregon was not readily available at the time this document was written. The information is still being sought.

3.2.2.3 City of Richland, Water Quality Department

The City of Richland monitors the Columbia River water after intake. Monitoring prior to and at intake is accomplished by WPPSS, Washington State Department of Health, and PNL. The PNL data is available annually in the Site Environmental Report (Woodruff and Hanf, 1993).

3.2.2.4 American Waterworks Association

Within the past five years, the American Waterworks Association's national office in Denver, Colorado completed a comprehensive river study at the city water intake area.

3.2.2.5 State of Washington, Division of Social and Health Services

The State of Washington has an Environmental Radiation Program within the Division of Social and Health Services. This program performs radiological surveillance. Between 1961 and 1962, gross gamma and gross beta were monitored, but no specific radionuclides. From 1969 through 1976, the program published five reports (1970, 1972, 1974, 1975, 1976) where zinc-65, chromium-51, phosphorus-32, and scandium-46 were monitored in the Columbia River and on the Washington coast in clams, oysters, and crabs. Between 1977 and 1987, water and sediment samples were taken to monitor tritium and strontium-90 near Hanford and in the vicinity of the Trojan Nuclear Plant.

3.2.2.6 University of Washington

The Laboratory of Water Quality and Radiation Ecology and the Fisheries-Oceanography Library are the main information repositories at the University of Washington. The Fisheries-Oceanography Library catalog is available on INTERNET. Data available from these sources are in reports published from 1960 through 1970. These reports document efforts to monitor water, sediment, and several biota species for zinc-65, chromium-51, phosphorus-32, scandium-46, and potassium-40. These monitoring efforts were performed in coastal Washington (North Head; Willapa Bay; Hood Canal) and in Oregon. The water and sediment samples supported analysis of: zinc-65 and chromium-51 in plankton, zinc-65 in Willapa Bay oysters, and phosphorus-32 in clams, mussels, barnacles, anemones, and algae.

3.2.2.7 State of Oregon, Department of Human Resources

The Health Division of the Department of Human Resources for the State of Oregon has performed radionuclide monitoring since 1961. A study of the Columbia River and coastal locations (1961 through 1977) involved monitoring water, sediment, and biota for 10 radionuclides. Zinc-65, chromium-51, and phosphorus-32 are of special interest. A study of the Columbia River and major tributaries (1961 through 1983) involved the Columbia, Snake, Willamette, Klamath, and coastal rivers. Water, sediment, and algae were monitored for gross alpha, gross beta, tritium, phosphorus-32, zinc-65, and chromium-51. A recent study of the Columbia River and tributaries (1984 through 1992) considered data from the Columbia, Deschutes, John Day, Umatilla, and Grande Ronde Rivers. The radionuclides monitored were gross alpha, gross beta, tritium, potassium-40, radium-226, beryllium-7, and thorium-232.

3.2.2.8 Oregon State University

The campus library at Oregon State University in Corvallis, Oregon maintains references from the School of Oceanography. The university also operates the Sciences Laboratory at Newport, OR. No large, comprehensive databases are housed there, but data are available in small quantities in individual reports. These reports describe monitoring in estuary and coastal locations. Zinc-65 and chromium-51 are key radionuclides. The biota monitored are tuna, salmon, shellfish, sediment, water, crab, flounder, and benthic marine life.

3.2.2.9 U.S. Geological Survey

The products of the USGS include USGS professional papers that give sampling results from early to mid-1960s. Samples were taken from Pasco, Washington to Vancouver, Washington for water and sediment only. The radionuclides included were zinc-65, chromium-51, manganese-54, scandium-46, and cobalt-60.

3.2.2.10 EARTHINFO Inc.

This Denver, Colorado company maintains monitoring data for the Columbia River and all gauged tributaries. Information included is water discharge and stage, and water quality data (only that measured by USGS). This information is updated annually.

3.2.2.11 Pacific Northwest River Basin Commission

The Pacific Northwest River Basin Commission in Vancouver, Washington, runs the Columbia River Estuary Data Development Program. Information available includes maps and channel geometry data of Columbia River estuary, and numerous reports with small data listings for water, sediment, and biota.

3.2.2.12 U.S. Department of Health, Education, and Welfare

The U.S. Department of Health, Education and Welfare (HEW) Public Health Service monitored the Columbia River from Priest Rapids Dam to Paterson, Washington, in 1951 through 1953. This effort included monitoring gross beta activity in water, sediment, and biota.

4.0 Results

4.1 Results of the Compendium Data Search

The search for radiological and nonradiological contaminant data identified approximately 4500 documents and 13 major databases that potentially contain information about contaminants in the Columbia River that are due to activities on the Hanford Site. As described previously, searches for data were conducted electronically, through phone calls, and with personal visits.

4.1.1 Database Identification

A total of 13 major databases were identified in the data search as containing information on contaminants in the Columbia River. A short discussion of these databases is included in Appendix C. All of the databases are available from the database custodian, or are being made available to EPA and Ecology through the TPA process.

4.1.2 Unpublished Information

During the search for data, some data and documents were identified that have never been published in any form. These data include:

- Sampling data on the Columbia River collected by George Toombs, Oregon Department of Health
- Many of the data in the Northwest Environmental Database (NED) are not described in any document and are not readily available through other avenues.
- The PNL document clearance system contains drafts of a number of documents that were never completed. This system will be searched for draft document information pertaining to contaminants in the river.
- The WHC document clearance system also contains drafts of a number of documents that were never completed. This system will be searched for draft documents information pertaining to contaminants in the river.

4.1.3 Published Information That is Publicly Available

Approximately 1750 of the documents identified in the search process are already available to DOE, Ecology, EPA, and the public. That is, the document is available at the DOE Reading Room. References for these documents are given in electronic format in Appendix D.

4.1.4 Documents Not Publicly Available

Approximately 2050 of the documents identified in the search process were not readily available to members of the public. References for these documents are given in electronic format in Appendix A.

4.1.5 Formerly Classified Titles

Recently, more than 650 declassified titles of classified documents were made available by DOE. Even though the titles were declassified, many of the documents remain classified. The titles of these documents are provided in Appendix B.

Several of these documents appear to contain information relating to historical releases of contaminants to the Columbia River. The documents written before 1980 are probably of interest more for reconstructing past releases than for examining current conditions.

4.2 Key Documents

The search process for information on contaminants in the Columbia River has identified approximately 4500 documents that potentially contain information about contaminants in the Columbia River due to activities on the Hanford Site. It would be a monumental task for any one person to read all of these documents. Therefore, two abbreviated document reference lists are provided in this section. These reference lists identify documents containing key information for conducting an analysis of ecological and human health impacts from contaminants currently in the Columbia River.

The first list contains one or two documents in several data collection and analysis areas. These documents are also contained in the second list. The areas and documents are:

- Environmental monitoring:

Woodruff R. K. and R. W. Hanf (eds). 1993. Hanford Site Environmental Report 1993. PNL-8682. Pacific Northwest Laboratory. Richland, Washington.
- Historical release of radionuclides:

Heeb, C. M. and D. J. Bates. 1994. Radionuclide Releases to the Columbia River from Hanford Operations, 1944-1971. PNWD-2223 HEDR. Battelle, Pacific Northwest Laboratories. Richland, Washington.
- Human health analyses:

Farris, W. T., B. A. Napier, J. C. Simpson, S. F. Snyder, and D. B. Shipler. 1994. Columbia River Pathway Dosimetry Report, 1944-1992. PNWD-2227 HEDR Draft, Battelle, Pacific Northwest Laboratories. Richland, Washington.

Wells, D. 1994. Radioactivity in Columbia River Sediments and Their Health Effects. Washington State Department of Health. Olympia, Washington.

- Ground water-based releases to the river:

U.S. Department of Energy. 1994. Annual Report for RCRA Groundwater Monitoring Projects at Hanford Site Facilities for 1993. DOE/RL-93-88 Rev. 0. United States Department of Energy - Richland Operations Office. Richland, Washington.

- Ecological assessments:

Becker, C. D. 1990. Aquatic Bioenvironmental Studies: The Hanford Experience 1944-84. Pacific Northwest Laboratory. Elsevier Science Publishing Company Inc. New York, New York.

Friant, S. L. and C. A. Brandt. 1993. Ecological Risk Assessment of Radionuclides in the Columbia River System "A Historical Assessment". PNL-8293. Pacific Northwest Laboratory. Richland, Washington.

- River modeling:

Walters, W. H., M. C. Richmond, and B. G. Gilmore. 1994. PNWD-2225 HEDR. Reconstruction of Radionuclide Concentrations in the Columbia River from Hanford, Washington to Portland, Oregon January 1950 - January 1971. Battelle, Pacific Northwest Laboratories. Richland, Washington.

The second abbreviated list of documents is much more extensive. However, no claim is made that this list identifies all of the important source documents for the CRCIA. A decision was made, somewhat arbitrarily, that this list of key documents would contain no more than 60 entries. Then, general selection criteria were established for including documents on the list. The criteria included the following considerations:

- Historical information would be included to ensure that a complete list of contaminants potentially of concern could be generated.
- Information was needed upstream and downstream of Hanford, as well as in the Hanford Reach of the Columbia River.
- Summary analyses would be included to help the reader find more obscure publications containing extensive discussions of the data or data collection processes.
- Information on metals and hazardous substances was needed in addition to information on radioactive materials.
- Published analyses for both ecological risk and human risk would be included.
- Information from funding sources other than the DOE would be included.
- The most recent information available would be included.

The list of key documents has been divided into several subsections for ease of presentation. The subsection titles identify the general category or source of information.

4.2.1 General and Historical Documents

Becker, C. D. and R. H. Gray. 1989. Abstracted Publications Related to the Hanford Environment, 1980 to 1988. PNL-6905. Pacific Northwest Laboratory. Richland, Washington.

Becker, C. D. and R. H. Gray. 1992. "Past and Present Water-Quality Conditions in the Hanford Reach, Columbia River." Environmental Monitoring and Assessment, Vol. 22, pp. 137-152. Kluwer Academic Publishers, the Netherlands.

Farris, W. T., B. A. Napier, J. C. Simpson, S. F. Snyder, and D. B. Shipler. 1994. Columbia River Pathway Dosimetry Report, 1944-1992. PNWD-2227 HEDR, Battelle, Pacific Northwest Laboratories. Richland, Washington.

Gray, R. H. 1994. Hanford Environmental Publications/Presentations 1989-1993. Pacific Northwest Laboratory. Richland, Washington.

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4.2.2 Documents on Aquatic Ecology

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Concentrations in the Columbia River from Hanford, Washington to Portland, Oregon January 1950 - January 1971.
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Rickard, W. H., L. E. Rogers, B. E. Vaughan, and S. F. Liebetrau (eds). 1988. shrub-steppe: balance and change in a semi-arid terrestrial ecosystem. Pacific Northwest Laboratory. Richland, Washington.

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4.2.5 Site Environmental Monitoring and Field Investigations

Brandt, C. A., C. E. Cushing, W. H. Rickard, N. A. Cadoret, and R. Mazaika. 1993. Biological Resources of the 300-FF-5 Operable Unit. WHC-SD-EN-TI-121 Rev. 0. Westinghouse Hanford Company. Richland, Washington.

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Perkins, C. J. 1989. Characterization of Radionuclide Concentrations Along the N-Springs Shoreline for 1988. WHC-SP-0480. Westinghouse Hanford Company. Richland, Washington.

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U.S. Department of Energy. 1993. Limited Field Investigation Report for the 100-BC-5 Operable Unit. DOE/RL-93-37 Draft A. United States Department of Energy - Richland Operations Office. Richland, Washington.

U.S. Department of Energy. 1993. Columbia River Impact Evaluation Plan. DOE/RL-92-28 Rev. 0. United States Department of Energy - Richland Operations Office. Richland, Washington.

U.S. Department of Energy. 1994. Annual Report for RCRA Groundwater Monitoring Projects at Hanford Site Facilities for 1993. DOE/RL-93-88 Rev. 0. United States Department of Energy - Richland Operations Office. Richland, Washington.

Weiss, S. G. and R. M. Mitchell. 1992. A Synthesis of Ecological Data from the 100 Areas of the Hanford Site. WHC-EP-0601. Westinghouse Hanford Company. Richland, Washington.

Weiss, S. G. 1993. 100 Area Columbia River Sediment Sampling. WHC-SD-EN-TI-198. Westinghouse Hanford Company. Richland, Washington.

4.2.6 Documents from Non-Hanford Sources

Johnson, A. and M. Heffner. 1993. Class II Inspection of the Boise Cascade Pulp and Paper Mill, Wallula, Washington - April 1992. Washington State Department of Ecology. Olympia, Washington.

Mah, F. T. S., D. D. MacDonald, S. W. Sheehan, T. M. Tuominen, and D. Valiela. 1989. Dioxins and Furans in Sediment and Fish from the Vicinity of Ten Inland Pulp Mills in British Columbia. Water Quality Branch Inland Waters Conservation and Protection Pacific and Yukon Region Environment Canada. Vancouver, B.C., Canada.

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Serdar, D., A. Johnson, and S. Magoon. 1991. Polychlorinated Dioxins and - Furans in Columbia River Sportfish: Chief Joseph Dam to McNary Dam. Washington Department of Ecology. Olympia, Washington.

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Washington State Department of Health. 1993. Environmental Radiation Program 1991 Annual Report 30th Edition. Washington State Department of Health, Division of Radiation Protection, Environmental Radiation Section. Washington State Department of Health. Olympia, Washington.

Wells, D. 1994. Radioactivity in Columbia River Sediments and Their Health Effects. Washington State Department of Health. Olympia, Washington.

4.2.7 Documents Being Transmitted to the DOE Reading Room

A list of key documents on contaminants in the Columbia River was identified in Section 4.2. Approximately 50% of the documents on the list were not in the DOE Reading Room. Copies of these documents have been prepared and have been transmitted to the DOE Reading Room. The documents to be transmitted are divided into two categories:

- Books - a copy has been ordered for the DOE Reading Room,
- Reports - copies have been prepared.

4.2.7.1 Books Ordered for the DOE Reading Room

The following books have been ordered and will be transmitted to the DOE Reading Room in Richland when they are received from the publisher.

Becker, C. D. 1990. Aquatic Bioenvironmental Studies: The Hanford Experience 1944-84. Pacific Northwest Laboratory. Elsevier Science Publishing Company Inc. New York, New York.

Pruter, A. T. and D. L. Alervson (eds). 1972. The Columbia River Estuary and Adjacent Ocean Waters: Bioenvironmental Studies. United States Atomic Energy Commission. University of Washington Press.

Rickard, W. H., L. E. Rogers, B. E. Vaughan, and S. F. Liebetrau (eds). 1988. shrub-steppe: balance and change in a semi-arid terrestrial ecosystem. Pacific Northwest Laboratory. Richland, Washington.

4.2.7.2 Reports Transmitted to the DOE Reading Room

A copy of each of the following reports has been obtained and has been transmitted to the DOE Reading Room in Richland, Washington.

Antonio, E. J., T. M. Poston, and W. H. Rickard, Jr. 1993. Radiological Survey of Shoreline Vegetation from the Hanford Reach of the Columbia River, 1990-1992. PNL-8797. Pacific Northwest Laboratory. Richland, Washington.

Becker, C. D. and R. H. Gray. 1992. "Past and Present Water-Quality Conditions in the Hanford Reach, Columbia River." Environmental Monitoring and Assessment, Vol. 22, pp. 137-152. Kluwer Academic Publishers, the Netherlands.

Brandt, C. A., C. E. Cushing, W. H. Rickard, N. A. Cadoret, and R. Mazaika. 1993. Biological Resources of the 300-FF-5 Operable Unit. WHC-SD-EN-TI-121 Rev. 0. Westinghouse Hanford Company. Richland, Washington.

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Friant, S. L. and C. A. Brandt. 1993. Ecological Risk Assessment of Radionuclides in the Columbia River System "A Historical Assessment". PNL-8293. Pacific Northwest Laboratory. Richland, Washington.

Gray, R. H. 1994. Hanford Environmental Publications/Presentations 1989-1993. Pacific Northwest Laboratory. Richland, Washington.

Haushild, W. L., G. R. Dempster, Jr., and H. H. Stevens, Jr. 1975. Distribution of Radionuclides in the Columbia River Streambed, Hanford Reservation to Longview, Washington. U.S. Department of the Interior in cooperation with

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Johnson, A. and M. Heffner. 1993. Class II Inspection of the Boise Cascade Pulp and Paper Mill, Wallula, Washington - April 1992. Washington State Department of Ecology. Olympia, Washington.

Keenan, R. E., A. H. Parsons, E. S. Ebert, P. D. Boardman, S. L. Huntley, and M. M. Sauer. 1990. Assessment of the Human Health Risks Related to the Presence of Dioxins in Columbia River Fish. ChemRisk™. A McLaren Company. Portland, Maine.

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Mah, F. T. S., D. D. MacDonald, S. W. Sheehan, T. M. Tuominen, and D. Valiela. 1989. Dioxins and Furans in Sediment and Fish from the Vicinity of Ten Inland Pulp Mills in British Columbia. Water Quality Branch Inland Waters Conservation and Protection Pacific and Yukon Region Environment Canada. Vancouver, B.C., Canada.

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5.0 Future Activities in Data Management

The data compendium in this document supports TPA Milestone M-13-80. Subsequent to the publication of the compendium, the data will be collected and made available to Ecology, EPA, and the public. This chapter addresses work that has not yet been performed to transfer the data. Data management will be a critical issue for the CRCIA throughout the life of the project. Some of the data management activities planned are: continued collection of existing contaminant data, transferring information to the public domain, and management of all data used in the project. This section is provided for the purpose of identifying how contaminant information will be transferred to the public domain.

5.1 Ongoing Searches

The effort to collect existing data applicable to the objectives of this project will continue after the publication of the data compendium. An attempt will be made to locate all data brought to the attention of the CRCIA project staff. Also, when relevant data are identified, an additional search will be made for other efforts by the people and organizations who produced the data.

5.2 Methods for Transferring Data to the Public

All data used in calculations by the CRCIA staff will be placed in the public domain. Information will be considered to be in the public domain when it is placed in a publicly available database, or when it is delivered to the DOE Reading Room in Richland, Washington.

The methods used to transfer information into the public domain will vary according to the format and current availability of the information. This transfer process will be used for some information gathered during the data compendium effort, and will continue to be used throughout the project to move data or other pertinent information into the public domain.

5.2.1 Transfer Methods for Paper Documents Based on Current Availability

Documents (or microfilm) containing data on contamination in the Columbia River that are not already in the public domain, fall into one of the following categories:

- they were approved for public release by the funding organization, but were not provided for public distribution
- they were written for internal company or client use, but were never approved for public release.

The method for making these documents available for the CRCIA will vary according to the originating organization.

5.2.1.1 Documents Already Approved for Release

The data compendium search has located some documents thought to contain information about contamination of the Columbia River that have been approved for public release, but that were never made available to the general public. These documents will be made available to the public by transmitting a copy to the DOE Reading Room in Richland. The documents identified in Section 4.2.7 have already been transmitted to the DOE Reading Room.

5.2.1.2 Documents Approved Only for Company or Client Use

The data compendium search has located some documents that have been approved for internal use by the sponsoring organization, but that were never approved for public release. The CRCIA project staff will work with the author, the author's employer, and DOE to attempt to obtain permission to release the document to the public.

PNL Letter Reports are examples of this category of information. Letter Reports are informal reports that generally are released only to the client sponsoring the work. They have not been subjected to all of the steps in the PNL clearance process for documents that will be publicly available.

5.2.1.3 Unpublished Documents and Records

The data compendium search has located some contaminant data that were never published. CRCIA project staff will work with the information originator or DOE to attempt to obtain permission to publish the information. The typical and expected publication approach is to publish the data without any analysis under a cover letter acknowledging the individual or organization that collected the data.

5.2.2 Transfer Methods for Information in a Non-Paper Form

Several databases containing contaminant information in electronic form were identified in the data compendium search. The major databases identified in the data compendium search are described in Appendix C. Because the data are in electronic form, they are useful only to individuals who have a computer and who want to perform analyses on the data. Several options are present for making databases available. These options include:

- placing a disk copy of the database, or the applicable part of the database, in the public domain
- granting access across a computer network to the database
- providing a paper copy of the information.

CRCIA staff will work with DOE to establish a method for granting database access for those interested organizations or individuals who wish to perform their own analyses. The method being considered at this time is to place the information in the Hanford Environmental Information System (HEIS) and grant access to the information through the process set up by TPA agencies (Brulotte and Christensen 1993). This process allows an electronic guest access for individuals who are not DOE, EPA, or Ecology employees.

5.3 Description of CRCIA Databases

Two databases will be needed to track the data used in the CRCIA. The first database will contain references and bibliographic information for documents. The second database is a numerical one to track all numerical data used in CRCIA calculations.

5.3.1 Reference Database

A Columbia River Reference Database (CRRD) is being developed to contain complete references for any information considered applicable to the CRCIA. This database is being developed in two phases. An initial phase was

implemented for use in organizing references for this data compendium. A limited amount of bibliographic information and document availability status is incorporated in the first phase of this database.

In future phases, a reference entry in the CRRD will contain bibliographic information and a short annotation including such items as: the organization performing the work, sample locations, report period, environmental media included, contaminants discussed, and data accessibility. Information for entries in the final CRRD will be gathered through use of a checklist that will be completed for all material reviewed for the CRCIA. If the information is not considered useful to the project, the checklist will be filed in project records. If the information is found to be useful, an entry will be made in the reference database. This database could then be used to find a list of documents that discussed, for instance, chromium contamination in the Columbia River.

5.3.2 Numerical Database

A numerical database will be used to serve as a repository for all data used in the CRCIA. This database will include both primary data and supporting data. Primary data are any data used for calculations in project activities. Supporting data may be corroborating data for primary data. All data in the numerical database will have one or more links to references in the reference database.

Options are currently being studied for the appropriate platform for the numerical database. Public access to the CRCIA project data will be an issue. The method primarily being considered at this time is to place the information in the Hanford Environmental Information System (HEIS) and grant access to the information through the process set up by TPA agencies (Brulotte and Christensen 1993). This process allows an electronic guest access for individuals who are not DOE, EPA, or Ecology employees.

6.0 References

Brulotte, P. J. and K. C. Christensen. 1993. Tri-Party Agreement Databases, Access Mechanism and Procedures. DOE/RL-93-069. U.S. Department of Energy, Richland, Washington.

Cushing, C.E., D.G. Watson, A.J. Scott, and J.M. Gurtinsen. 1981. "Decrease of Radionuclides in Columbia River Biota Following Closure of Hanford Reactors." Health Physics 41(1):59-67.

Dirkes, R. L., G. W. Patton, and B. L. Tiller. 1993. Columbia River Monitoring: Summary of Chemical Monitoring Along Cross-Sections at Vernita Bridge and Richland. PNL-8654. Pacific Northwest Laboratory, Richland, Washington.

Dirkes, R. L. 1994. Summary of Radiological Monitoring of Columbia River Water Along the Hanford Reach, 1980 Through 1989. PNL-9223. Pacific Northwest Laboratory. Richland, Washington.

Ecology, EPA and DOE. 1989. Hanford Federal Facility Agreement and Consent Order. Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy, Olympia, Washington.

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Robeck, G. G., C. Henderson, and R. C. Palange. 1954. Water Quality Studies on the Columbia River. U.S. Public Health Service, U.S. Department of Health, Education, and Welfare, Robert A. Taft Sanitary Engineering Center, Cincinnati, Ohio.

U.S. Department of Energy. 1993. Columbia River Impact Evaluation Plan. DOE/RL-92-28 Rev.0. United States Department of Energy - Richland Operations Office. Richland, Washington.

Walters, W. H., R. L. Dirkes, and B. A. Napier. 1992. Literature and Data Review for the Surface-Water Pathway: Columbia River and Adjacent Coastal Areas. PNWD-2034 HEDR. Battelle, Pacific Northwest Laboratories. Richland, Washington.

Washington State Department of Health. 1993. Environmental Radiation Program 1991 Annual Report 30th Edition. Washington State Department of Health, Division of Radiation Protection, Environmental Radiation Section. Olympia, Washington.

Woodruff R. K. and R. W. Hanf (eds). 1993. Hanford Site Environmental Report 1993. PNL-8682. Pacific Northwest Laboratory. Richland, Washington.

Appendix A

Published Information Not Currently Available to the Public

Appendix A is included in electronic form on the accompanying diskette in file APPENDIX.A. It contains references to approximately 2050 documents that were located during the data search, but which are not currently available at the DOE Reading Room in Richland.

Project: Columbia River Comprehensive Impact Assessment
Item: Data Compendium for the Columbia River Comprehensive
Impact Assessment, Appendix A
Title: Published Documents Not Currently Available to the Public
Date: April 1994
4/26/94

All Records Not Equal To Ident "Reading"

Author	Title	Rptno	Ident
	183-H SOLAR BASINS, TAKEN IN 3/1983. ASI # PH-012	106669-60	WHC-H
	1904-DR OUTFALL, SHOWS COMPLETED LINE TO ISLAND, DATED 03-08-56	3705	WHC-DR
	CONTAMINATION SPREAD, NOVEMBER 14, 1975	75-130	HIRTS
	ATLANTIC RICHFIELD HANFORD COMPANY MONTHLY REPORT JULY 1971	ARH-1907-DEL	HIRTS
	ATLANTIC RICHFIELD HANFORD COMPANY MONTHLY REPORT AUGUST 1971	ARH-1908-DEL	HIRTS
	ATLANTIC RICHFIELD HANFORD COMPANY MONTHLY REPORT SEPTEMBER 1971	ARH-1909-A-DEL	HIRTS
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DABROWSKI	QUARTERLY REPORT, APRIL-JUNE 1975, 100 AREA CHARACTERIZATION	MEMO 7-9-75	WHC-D,DR,H
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DIEDIKER, L.P.	IODINE-131 RELEASE TO THE COLUMBIA RIVER RESULTING FROM AN N REACTOR ACCIDENT	MEMO 6/25/86	WHC-N
DIEDIKER, L.P.	CALCULATED 50-YEAR DOSE TO MAXIMUM INDIVIDUAL FROM DISCHARGE TO RIVER OF ALL RADIONUCLIDES CONTAINED IN 1301-N FACILITY	UNI-1106	WHC-N
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DORIAN, J.J.	ENVIRONMENTAL PROTECTION SURVEILLANCE AND COMPLIANCE INSPECTION QUARTERLY STATUS REPORT: APRIL 1 THROUGH JUNE 30 1988.	MEMO 8/10/88	WHC-N
DORIAN,J.J.	UNC PROGRAM FOR REDUCTION OF EFFLUENT RELEASES	UNI-2897	WHC-N
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GEIER RG	CONTAMINATION CONTROL - COLUMBIA RIVER - MONTHLY REPORT AUGUST, 1966	DUN-1585	HIRTS
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GEIER RG	CONTAMINATION CONTROL - COLUMBIA RIVER - NOVEMBER, 1966	DUN-1854	HIRTS
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GEIER RG	CONTAMINATION CONTROL - COLUMBIA RIVER - QUARTERLY REPORT APRIL-JUNE 1968	DUN-4847	HIRTS
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GEIER RG	CONTAMINATION CONTROL - COLUMBIA RIVER - QUARTERLY REPORT JULY-SEPTEMBER 1968	DUN-5030	HIRTS
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GEIER RG	CONTAMINATION CONTROL - COLUMBIA RIVER - QUARTERLY REPORT OCTOBER-DECEMBER 1968	DUN-5563	HIRTS
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GREAGER	RADIOLOGICAL SURVEILLANCE REPORT FOR THE 100-N AREA ENVIRONMENT--1980, 10-3-80	UNI-1581	WHC-N
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PAAS	RADIOACTIVE CONTAMINATION IN THE ENVIRONS OF THE HANFORD WORKS FOR THE PERIOD JANUARY, FEBRUARY, MARCH, 1950, 7-28-50	HW-18446	WHC-BC
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PAAS	RADIOACTIVE CONTAMINATION IN THE ENVIRONS OF THE HANFORD WORKS FOR THE PERIOD JANUARY, FEBRUARY, MARCH, 1951, 6-1-51	HW-21214	WHC-BC
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STEVENS AJ	RSD - RADIATION MONITORING UNIT MONTHLY REPORT APRIL 1956	HW-42710	HIRTS
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US DOE	LIMITED FIELD INVESTIGATION REPORT FOR THE 100-KR-4 OPERABLE UNIT	DOE/RL-93-79	SIG4
US DOE	ANNUAL REPORT FOR RCRA GROUNDWATER MONITORING PROJECTS AT HANFORD SITE FACILITIES FOR 1993	DOE/RL-93-88 REV.0	SIG4
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WOOLDRIDGE CB	ENVIRONMENTAL SURVEILLANCE IN THE VICINITY OF HANFORD FOR JUNE, 1968	BNWL-0778-05	HIRTS
WOOLDRIDGE CB	ENVIRONMENTAL SURVEILLANCE IN THE VICINITY OF HANFORD FOR JULY, 1968	BNWL-0778-06	HIRTS
WOOLDRIDGE CB	ENVIRONMENTAL SURVEILLANCE IN THE VICINITY OF HANFORD FOR AUGUST, 1968	BNWL-0778-07	HIRTS
WOOLDRIDGE CB		BNWL-0778-08	HIRTS

Author	Title	Rptno	Ident
WOOLDRIDGE CB	ENVIRONMENTAL SURVEILLANCE IN THE VICINITY OF HANFORD FOR SEPTEMBER 1968	BNWL-0778-09	HIRTS
WOOLDRIDGE CB	ENVIRONMENTAL SURVEILLANCE IN THE VICINITY OF HANFORD FOR OCTOBER, 1968	BNWL-0778-10	HIRTS
WOOLDRIDGE CB	ENVIRONMENTAL SURVEILLANCE IN THE VICINITY OF HANFORD FOR DECEMBER, 1968	BNWL-0778-12	HIRTS
WOOLDRIDGE CB	ENVIRONMENTAL STATUS OF THE HANFORD RESERVATION FOR NOVEMBER-DECEMBER, 1967	BNWL-CC-1197-6	HIRTS
WOOLDRIDGE CB	ENVIRONMENTAL STATUS OF THE HANFORD RESERVATION FOR JANUARY-JUNE, 1968	BNWL-CC-1850	HIRTS
WOOLDRIDGE CB	ENVIRONMENTAL STATUS OF THE HANFORD RESERVATION FOR JULY-DECEMBER, 1968	BNWL-CC-2026	HIRTS
WORTHINGTON HW JORDAN WE	100 AREA TECHNICAL REPORT FOR TECHNICAL PROGRESS LETTER NO.37 THRU NO.78 (3-22-45 THRU 12-31-45)	HW--3-1947-DEL	HIRTS
WPPSS	ENVIRONMENTAL REPORT, WPPSS, NUCLEAR PROJECTS NOS. 1 AND 4		WHC-MFREFS
WPPSS	TECHNICAL REVIEW OF THE AQUATIC MONITORING PROGRAM OF WNP-2		WHC-MFREFS
WPPSS	SUPPLEMENTAL INFORMATION ON THE HANFORD GENERATING PROJECT IN SUPPORT OF A 316(A) DEMONSTRATION	CRRD-50019	SIG4
WREN DJ PAQUETTE J	KINETICS OF IODINE RELEASE FROM AQUEOUS SOLUTION	AERE-R-11974	HIRTS
WYATT LK	EFFLUENT WATER - 105-B	DUH-13548	HIRTS
YOUNG JR	STATUS REPORT: ALGAE FILTER DEVELOPMENT	HW-20019	HIRTS
YOUNG JR	REACTOR PROCESS CHANNEL WATER LEAK HISTORY FY-1959 AND 1960	HW-66468	HIRTS
ZIMMERMAN	HANFORD SITE WATER TABLE CHANGES 1950 THROUGH 1980 - DATA OBSERVATIONS AND EVALUATION, 4-86	PNL-5506	WHC-N
ZIMMERMAN DA DAVIS PA	PARAMETER ESTIMATION TECHNIQUES AND UNCERTAINTY IN GROUND WATER FLOW MODEL PREDICTIONS	SAND-90-1056C	HIRTS
ZIMMERMAN DA REISENAUER AE B	HANFORD SITE WATER TABLE CHANGES 1950 THROUGH 1980 - DATA OBSERVATIONS AND EVALUATION	PNL-5506	HIRTS

Appendix B

Formerly Classified Titles

Appendix B is included in electronic form on the accompanying diskette. It is contained in two separate files: APPENDIX.B1 and APPENDIX.B2. The file APPENDIX.B1 contains references to 435 unclassified titles of formerly classified documents obtained from the tracking system at the Hanford Technical Library. The file APPENDIX.B2 contains 230 more unclassified titles of formerly classified documents. As of April, 1994, the reference information in file APPENDIX.E2 has not been entered into the tracking system at the Hanford Technical Library.

The information contained in this appendix is different from that contained in other appendixes in two ways:

- This appendix contains references for documents whose *titles* have been unclassified. Many of the documents are still classified.
- These document reference lists are provided as obtained from the Hanford Technical Library. PNL has not attempted to eliminate documents that may not be applicable to the CRCIA.

Project: Columbia River Comprehensive Impact Assessment
Item: Data Compendium for the Columbia River Comprehensive
Impact Assessment, Appendix B (File #1)
Title: Unclassified Titles of Formerly Classified Documents
Date: April 1994

Document Number	Document Title	Author	Date
HW-80649	Report to the Working Committee for Columbia River Studies on Progress Since September, 1962 for Projects Carried out by the General Electric Company at Hanford	Foster, RF	1964
HW-71967	A Study of Columbia River Surveillance by Closed Circuit Television	Maupin, Jr.	1961
HW-32809	Columbia River Situation - A Semi-Technical Review	Parker, HM	1954
HW-23791	The Aquatic Biology Laboratory (Rough Draft)	Foster, RF, and RW Coopey	1948
HW-68096	Columbia River Conditions	Junkins, RL	1961
HW-33437 (p. 14-29)	Quarterly Progress Report - Research and Development Activities- July-September, 1954	Parker, HM	1954
PNL-SA-9367	Canada Goose Nesting Performance Along the Hanford Reach of the Columbia River, 1971-1980	Fitzner, RE, Sweany, HA, and WH Rickard	1981
BNWL-SA-2502	The Columbia River of the Future	Jaske, RT	1969
BNWL-CC-1236	Columbia River Hydrograph	Jaske, RT	1967
BNWL-C-96	Environmental Status of the Hanford Reservation for 1970	Bramson, PE	1972
HW-SA-3147	Variations in Elemental Concentrations in the Columbia River	Silker, WB	1963
HW-69368 (Sec 4&5)	A Compilation of Basic Data Relating to the Columbia River	Corley, JP, Kramer, HA, and JK Soldat	1960
HW-7174	River Water Sampling - Columbia and Yakima River Water - Tests	Butler, BF	1947
GEH-21,328	Columbia River Water Studies (Preliminary Draft)	Henderson, C, RC Palance, and GC Robeck	1954
HW-32496	Hanford Water Analysis	Botsford, CW	1954
DUH-8013	Letter and Eleven Graphs Showing the Quantity of Oxygen in the Columbia and Yakima River	Valente, FA	1946
DUH-6691	Correlation of Actual River Water Analyses with CMX Raw Water Analyses	Kidder, CP, and RD Frank	1944
GEH-20,873	Water Analyses - Project 9536	Daniels, HT	1943
DUH-10,971	Water Analysis	Patterson, WN	1943

PNL-SA-6575	Trace Elements in a Columbia River Food Web	Cushing, CE	1977
BNWL-SA-5194	Seasonal Distribution of Mercury in Water, Suspended Matter and Sediments of the Lower Columbia River Watershed	Garland, TR, and RE Wildung	1974
DUH-3917	Filtered River Water	Howe, JP	1944
DUH-3213	Analysis of Columbia River Mud	Hoff, MR	1944
BNWL-1638	Seasonal Changes in Particle Size Distribution, Composition, and Strontium Exchange Capacity of Particulate Matter Suspended in the Columbia River	Wildung, RE, RC Routson, and RL Schmidt	1972
BNWL-1228	Evaluation of the Simpl-1 Hybrid Computer Concept on a Water Quality Benchmark Problem	Burnett, RA, and DG Daniels	1969
HW-47500 (p. 225-227)	Chinook Salmon Spawning in the Vicinity of Hanford - 1956 (In Biology Research Annual Report-1956)	Watson, DG	1957
HW-41500 (p. 29-34)	Chinook Salmon Spawning in the Vicinity of Hanford 1947-1955 (In Biology Research Annual Report 1955)	Watson, DG	1956
HW-72500 (p. 148-150)	Chinook Salmon Spawning in the Columbia River (In Hanford Biology Research Report Annual Report for 1961)	Watson, DG	1962
HW-35917 (p. 6-10)	1954 Radiobiological Survey of the Columbia River (In Biology Research-Annual Report 1954)	Davis, JJ, DG Watson, and CC Palmiter	1955
HW-20055 DEL	Effect of Hanford Pile Effluent Upon Aquatic Invertebrates in the Columbia River	Davis, JJ, and CL Cooper	1951
HW-36014	Isotopic Dilution of P-32 in the River	Honstead, JF	1955
PNL-SA-8504 -a6H	Bald Eagles of the Hanford National	Fitzner, RE, DG Watson, and WH	1980

	Environmental Research Park	Rickard	
PNL-SA-8423	The Non-Fisheries Biological Resource of the Hanford Reach of the Columbia River	Rickard, WH, WC Hanson, and RE Fitzner	1980
PNL-SA-7625	Fishing Behavior of Coyotes on the Columbia River, South-Central Washington	Springer, JT	1979
PNL-SA-7574	Observations on Gas Bubble Disease Among Adult Smallmouth Bass and Squawfish in the Lower Snake and Mid-Columbia Rivers	Montgomery, JC	1979
BNWL-SA-6462	Wintering Bald Eagles Along the Columbia River, Southeastern Washington	Fitzner, RE	1977
BNWL-SA-6107	Seasonal Movements of White Sturgeon (Acipenser transmontanus) in the Mid-Columbia River	Haynes, JM, RH Gray, and JC Montgomery	1977
BNWL-SA-5493	New Distribution Records and Notes on the Life History and Behavior of the Sand Roller, Percopsis transmontana (Eigenmann and Eigenman)	Gray, RH and DD Dauble	1975
BNWL-SA-5435	Direct Effects of Cold Shock: Bioassays with Three Columbia River Organisms	Becker, CD, and MJ Schneider	1975
BNWL-SA-3973	Statistical Analysis of Factors Influencing Fall Chinook Redd Counts Near Hanford on the Columbia River: 1947-1969	Gilbert, RO, GJ Paulik, and DG Watson	1971
BNWL-SA-3585	Exploratory Studies of the Interactions of Gas Supersaturation and Temperature on Mortality of Juvenile Salmonids	Coutant, CC	1970
BNWL-SA-3045	Experimental Drifts of Juvenile Chinook Salmon through Effluent Discharges at Hanford in 1968	Becker, CD, and CC Coutant	1970
BNWL-SA-2070	Effects of Thermal Loading: The Columbia River Story	Coutant, CC	1968
BNWL-CC-1436	Report to the Working Committee for Columbia River Studies on Progress Since August, 1964 for Projects Carried Out by Battelle-Northwest	Foster, RF	1967
PNL-5371	Anadromous Salmonids of the Hanford Reach, Columbia River: 1984 Status	Becker, CD	1985
BNWL-SA-1216	Chondrococcus columnaris in Columbia River Fishes	Fujihara, MP, and FP Hungate	1967
PNL-4988 (UNI-2754)	Fish Distribution Studies Near N Reactor, Summer 1983	Dauble, DD and TL Page	1984
PNL-4950	White Sturgeon Research Needs: Workshop Results	Fickeisen, DH, DA Neitzel, and DD Dauble	1983
BNWL-1734	Aquatic Bioenvironmental Studies in the Columbia River at Hanford 1945-1971, a Bibliography with Abstracts	Becker, CD	1973
BNWL-1606	A Columbia River Canada Goose Population,	Hanson, WC and LL Eberhardt	1971

	1950-1970		
BNWL-316	Evaluation of Radiological Conditions in the Vicinity of Hanford for 1965	Soldat, JK, and TH Essig	1966
BN-SA-1842	Modeling Survival of Juvenile Salmon During Down River Migration in the Columbia River on a Microcomputer	Peloquin, RA, and DH McKenzie	1983
BN-SA-1044	Comparison of a Small Seine and a Backpack Electroshocker to Evaluate Nearshore Fish Populations in Rivers	Dauble, DD, and RH Gray	1979
BN-SA-1014	Estimates of Hybridization Between Two Species of Catostonids in the Columbia River	Dauble, DD, and RL Buschbon	1979
BN-SA-966	Life History of the Bridgelip Sucker Catostomus columbianus in the Central Columbia River	Dauble, DD	1979
BN-SA-930	Comparative Ecology of two Sympatric Catostomids, Catostomus macrocheilus and Catostomus columbianus, in the Middle Columbia River	Dauble, DD	1978
BN-SA-744 ~&a6H	Columbia River Plankton Community Dynamics	Page, TL, and DA Neitzel	1977

BN-SA-536	Checklist and Relative Abundance of Fish Species from the Hanford Reach of the Columbia River	Gray, RH, and DD Dauble	1975
PNL-3271 (NUREG/CR-1300)	Biocide By-Products in Aquatic Environments. Final Report September 10, 1976-September 30, 1979	Bean, RM, CI Gibson, and DR Anderson	1981
PNL-2813	Quarterly Progress Report Covering Period April 1 through June 30, 1978 - Biocide By-Products in Aquatic Environments	Anderson, DR, RM Bean, and CI Gibson	1978
PNL-2806 (NUREG-CR-0504)	Biocide By-Products in Aquatic Environments Annual Report Covering Period October 1, 1977 through September 30, 1978	Anderson, DR, RM Bean, and CI Gibson	1979
HW-SA-2857	Interspecies Differences in Accumulation Gamma Emitters by Marine Organisms Near the Columbia River Mouth	Watson, DG, JJ Davis, and WC Hanson	1962
HW-SA-2748	Evaluation of Discharging Radioactive Wastes into Fresh Water Streams	Hall, RB, and RH Wilson	1962
HW-SA-2053	The Influence of Radiological Wastes on Water Quality (For Presentation to the Conference on Water Quality in the Columbia River Basin, November 28-30, 1960)	Foster, RF	1960
HW-SA-1725	Behavior of Radionuclides in Food Chains; Fresh Water Studies (to be Presented at the Radiological Health Training Course at Cincinnati, Ohio on September 17, 1959)	Foster, RF	1959
HW-79073	Environmental Effects of a Fuel Element Failure	Hall, RB	1963
HW-78196	N Reactor Secondary Loop Contamination	Stepnewski, DD	1963
HW-72819	River Contamination Reduction Studies - An Evaluation of the Artificial Lake Concept	Keene,	1962
HW-72738	River Contamination Reduction Studies Program Outline and Schedule	Schack,	1962
HW-66026	MPC's for Ingestion of Rare Earths in Columbia River Water	McConiga, MW	1960
HW-65414	Methods for Reducing Reactor Effluent Radioisotope Release	Heacock, HW, and PC Jerman	1960
HW-63654	Off-Project Exposure from Hanford Effluent	Foster, RF, and RL Junkins	1960
HW-63653	Reactor Effluent Water Disposal	Hall, RB, and PC Jerman	1960
HW-63654 REV	Off-Project Exposure from Hanford Reactor Effluent	Foster, RF, and RL Junkins	1960
HW-62638 (p. 3-17)	Quarterly Progress Report. Research and Development Activities in the Field of Radiological Sciences. July-September, 1959		1959
HW-61326	Calibration of Rupture Monitors	McCormack, JD, and LC Schwendiman	1959

HW-60529	Direct Disposal of Reactor Effluent	Healy, JW	1959
HW-59500 (p. 135-137)	Effects of Variable River Flow on the Toxicity of Reactor Effluent (in Hanford Biology Research Annual Report for 1958)	Olson, PA	1959
HW-56001 E	Interim Report No. 6 on Internal Decontamination with Turco 4306-B--Disposal Aspects II	Koop, WN	1959
HW-55774	Development Test Authorization IP-154-AL - Sulfuric Acid Study	Hall, RB, and WR Conley	1958
HW-54756	Predicted Effects on 100-D Area Water Supply from 100-K Area OutfallLine Failure	McConiga, MW, and JK Soldat	1958
HW-52908	The Depletion of Radioisotopes from the Columbia River by Natural Processes	Nielson, JM, and RW Perkins	1957
HW-52401	Dilution of 300 Area Uranium Wastes Entering the Columbia River	Haney, WA	1957
HW-50137	Reactor Effluent Monitoring	Hall, RB	1957
HW-52410	Radioactivity in 100-Area Water	Hall, RB	1957
HW-49195	The Turbulent Diffusion of River Contaminants	Norton, HT	1957
HW-49008 -~&a6H	Dispersion of Disolved Material in the	Honstead, JF	1957

	Columbia River		
HW-45124	Review and Analysis of Hydrological and Radiochemical Columbia River Surveys	Bogan, RH	1956
HW-41849	Flow Patterns in Disposal to the Columbia River	Healy, JW, JF Honstead, and WY Matsumoto	1955
HW-45725	Reactor Effluent Monitoring	Healy, JW	1956
HW-38469 RD	Chemical Contamination of Drinking Water by Sodium Dichromate at Low River Flows	Bainard, WD	1955
HW-38449	Effects of River Flow Manipulation at Priest Rapids	Smith, JM	1955
HW-30,744	Radioactive Contamination in the Hanford Environs for the Period October, November, December 1953	Paas, HJ	1954
HW-30488 (p. 25-35)	Radiological Sciences Department - Quarterly Progress Report - Research and Development Activities - October-December, 1953	Parker, HM	1954
HW-28121	Release of Radioactive Wastes to Ground	Healy, JW	1953
HW-28009	Radioactive Contamination in the Hanford Environs for the Period January, February, March, 1953	Paas, HJ	1953
HW-30174	Radioactive Contamination in the Hanford Environs for the Period July, August, September, 1953	Paas, HJ	1953
HW-26493	Radioactive Contamination in the Environs of the Hanford Works for the Period April, May, June, 1952	Paas, HJ	1952
HW-25021 (p. 202-203)	Biology Research - Annual Report - 1951	Kornberg, HA, LK Bustad, and RF Foster	1952
HW-25021 (p. 1-18)	Biology Research - Annual Report - 1951	Kornberg, HA, LK Bustad, and RF Foster	1952
HW-25021 (p. 19-29)	Biology Research - Annual Report - 1951	Kornberg, HA, LK Bustad, and RF Foster	1952
HW-25021 (p. 41-52)	Biology Research - Annual Report - 1951	Kornberg, HA, LK Bustad, and RF Foster	1952
HW-23792	A Crude Guess as to the Effect of a Pile Explosion on the Aquatic Life of the Columbia River (Rough Draft)	Foster, RF	0
HW-23093	Accumulation of Radioactivity in Columbia River Fish in the Vicinity of the Hanford Works	Olson, Jr., PA, and RF Foster	1952
HW-22576	Radiological Sciences Department - Quarterly Progress Report - Research and Development Activities for July-September 1951	Parker, HM	1951

HW-22181	Columbia River Symposium Second Meeting, 21-22 May, 1951. Richland, Washington	Kornberg, HA	1951
HW-17595	Meeting of the Columbia River Advisory Group March 6-7, 1950	Adley, FE, and WK Crane	1950
HW-15861	Meeting of the Columbia River Advisory Group-November 21-23, 1949	Adley, FE, and WK Crane	1950
HW-12574	Proposed Radiological-Ecological Survey of the Columbia River	Foster, RF	1949
HW-10592	Summary of HW Radiation Hazards for the Reactor Safeguard Committee	Parker, HM	1948
GEH-19,226	Summary Report of Joint Quarterly Meeting - Columbia River Advisory Group - US Public Health Service, Atomic Energy Commission, and General Electric Company - Richland Washington - October 22-23, 1951		1951
DUH-10,159	The Radioactive Contamination of the River Resulting from the Discharge of Cooling Water into it	Wollen, EO	1943
BNWL-SA-465	Environmental Monitoring	Honstead, JF, and JK Soldat	1965
BNWL-CC-1296	Environmental Significance of Diesel Fuel Entering Columbia River at 100-N	Selby, JM	1967
-&a6H			

PNL-5289	Investigation of Ground-Water Seepage from the Hanford Shoreline of the Columbia River	McCormack, WD, and JMV Carlile	1984
PNL-3127	Radiological Survey of Exposed Shorelines and Islands of the Columbia River Between Vernita and the Snake River Confluence	Sula, MJ	1980
HW-26101	Corrosion Experience in Irrigation Systems	Hauff, TW	1952
BNWL-CC-1997	Inhibition of Carbon Steel Corrosion in Filtered Columbia River Water	Larrick, AP	1969
BNWL-1477	Dispersion Characteristics of the Columbia River Between Miles 383 and 355	Sonnichsen, Jr, JC, DA Kottwitz, and RT Jaske	1970
BNWL-20	The Density Flow Regime of Franklin D. Roosevelt Lake	Jaske, RT	1965
BNWL-SA-701	The Density Flow Regime of Franklin D. Roosevelt Lake	Jaske, RT, and GR Snyder	1966
HW-25021 (p. 30-40)	Biology Research Annual Report 1951	Kornberg, HA, LK Bustad, RF Foster, RC Thompson, et al.	1952
HW-69368 Sec 6.3 & 7.0	A Compilation of Basic Data Relating to the Columbia River	Carter, LA	1960
HW-68751 REV	Control Limits for the Concentration of Radioactive Materials in Aqueous and Gaseous Effluents from the Plutonium Recycle Test Reactor	Backman, GE	1961
HW-69969	Source of Reactor Effluent Water Isotopes	Perkins, RW	1961
HW-69500 (p. 151-155)	Dispersion of Gamma Emitters on Marine Organisms Near the Mouth of the Columbia River (In Hanford Biology Research Annual Report for 1960)	Watson, DG, JJ Davis, and WC Hanson	1961
HW-69500 (p. 156-158)	Salmon Spawning in the Vicinity of HAPO - 1960 (in Hanford Biology Research Annual Report For 1960)	Watson, DG	1961
HW-56928	Research and Development Activities in the Field of Radiological Sciences Quarterly Progress Report [for] April-June 1958	Healy, JW	1958
HW-52866	Research and Development Activities in the Field of Radiological Sciences. Quarterly Progress Report [for] July-September 1957	Healy, JW	1957
HW-51321	Research and Development Activities in the Field of Radiological Sciences. Quarterly Progress Report [for] April-June 1957	Healy, JW	1957
HW-55586	Research and Development Activities in the Field of Radiological Sciences. Quarterly Progress Report [for] January-March 1958	Healy, JW	1958
HW-54938	Research and Development Activities in the Field of Radiological Sciences. Quarterly Progress Report [for] October-December 1957	Healy, JW	1958
HW-36301 DEL	Radiological Sciences Department Research	Parker, HM	1955

	and Development ActivitiesQuarterly Progress Report [for] January-March 1955		
HW-41026 (p. 1-14)	Radiological Sciences Department Quarterly Progress Report - Research and Development Activities, October-December, 1955	Parker, HM	1956
HW-33437 (p. 5-14)	Quarterly Progress Report - Research and Development Activities, July-September, 1954	Parker, HM	1954
HW-39624	Quarterly Progress Report - Research and Development Activities, July-September, 1955	Parker, HM	1955
HW-31530 (p. 1-14)	Quarterly Progress Report - Research and Development Activities - Radiological Sciences Department - January-March, 1954	Parker, HM	1954
HW-29519 (p. 4-18)	Radiological Sciences Department - Quarterly Progress Report - Research and Development Activities - July-September 1953	Parker, HM	1953
HW-30488 (p. 5-11) -&a6H	Radiological Sciences Department - Quarterly Progress Report - Research and	Parker, HM	1954

	Development Activities - October-December, 1953		
HW-30437 (p. 8-13)	Biology Research - Annual Report 1953	Kornberg, HA, and Staff	1954
HW-33366	Studies on the Effect of the Hanford Reactors on Aquatic Life in the Columbia River	Foster, RF, JJ Davis, and PA Olson	1954
HW-25191	The Abundance of the Principal Crustacea of the Columbia River and the Radioactivity they Contain	Coopey, RW	1953
HW-25008 (p. 6-16)	Quarterly Progress Report - Research and Development Activities for April-June, 1952	Parker, HM	1952
HW-25994 (p. 5-14)	Quarterly Progress Report - Research and Development Activities July-September, 1952	Parker, HM	1952
DUH-6692	Turbidity Flocculation in Columbia River Water	Frank, RD, and WR Conley	1944
PNL-4467	Information Retrieval System: Impacts of Water-Level Changes on Uses of Federal Storage Reservoirs of the Columbia River	Fickeisen, DH, PJ Cowley, DA Neitzel, and MA Simmons	1982
BN-SA-573	Occurrence of a Wild Albino Chinook Salmon (Oncorhynchus tshawytscha) in the Columbia River	Dauble, DD, RH Gray, RW Hanf, Jr., and TM Poston	1976
BN-SA-441	Diving Techniques in the Columbia River	Schneider, MJ	1975
BNWL-1515	Fall Chinook Salmon Spawning in the Columbia River Near Hanford 1947-1969	Watson, DG	1970
BNWL-1499	Experimental Drifts of Juvenile Salmonids Through Effluent Discharges at Hanford Part I. 1968 Drifts	Becker, CD, and CC Coutant	1970
BNWL-CC-979	Progress Report on 02 Research and Development Mission 12- Columbia River Studies July-December 1966	Foster, RF, JF Honstead, RT Jaske	1966
BNWL-SA-4381	Food and Growth Parameters of Juvenile Chinook in the Central Columbia River	Becker, CD	1972
BNWL-SA-3094	Thermal Resistance of Adult Coho /Oncorhynchus kisutch/ and Jack Chinook /O. tshawytscha/ Salmon, and Adult Steelhead Trout /Salmo gairdneri/ from the Columbia River	Coutant, CC	1970
BNWL-SA-3047	Autoradiographic Studies of Zn-65 Adsorption by Periphyton	Rose, FL, and CE Cushing	1970
BNWL-SA-5206	Effects of Thermal and Chemical Discharges from Nuclear Power Plants	Templeton, WL, MJ Schneider, and CI Gibson	1974
BNWL-SA-3932	Feeding Bionomics of Juvenile Chinook Salmon Relative to Thermal Discharges in the Central Columbia River	Becker, CD	1971
HW-11344	A One Year Study of Radioactivity in Columbia River Fish	Herde, KE	1948

HW-11662	The Accumulation of Radioactivity as Shown by a Limnological Study of the Columbia River in the Vicinity of Hanford Works. Preliminary Report	Coopey, RW	1948
HW-23332	Radiological Sciences Department Quarterly Progress Report; Research and Development Activities for October-December, 1951	Parker, HM	1952
HW-28636 (p. 8-13)	Biology Research Annual Report 1952	Kornberg, HA, LK Bustad, RF Foster, RC Thompson, et al	1953
HW-26523 (p. 5-15)	Radiological Sciences Department - Quarterly Progress Report - Research and Development Activities for October-December, 1952	Parker, HM	1953
HW-28892	Radiological Sciences Department Quarterly Progress Report: Research and Development Activities [for] April-June, 1953	Parker, HM	1953
HW-29298	A Preliminary Comparison of the Nannoplankton and Net Plankton in the Columbia River	Coopey, RW	1953
HW-24131 -a6H	Quarterly Progress Report Research and	Parker, HM	1952

	Development Activities for January-March, 1952		
HW-76887	Artificial Cooling of the Columbia River by Kramer, HA Dam Regulation 1962		1963
HW-76210	Effects of Hanford Operations on Columbia River Temperatures - Interim Report	Corley, JP	1963
HW-69369	A Compilation of Basic Data Relating to the Columbia River. Section 8 - Dispersion of Reactor Effluent in the Columbia River	Soldat, JK	1962
HW-68228	Incident Report - Priest Rapids Dam Flow Curtailment, January 7, 1961	Kramer, HA, and JP Corley	1961
HW-63996	Coulee Disaster Report	Corley, JP	1957
HW-60442 RD	Historical Record of Data on Flood Control - Report of Visit to Grand Coulee Dam, March 16, 1949	Kramer, HA	1959
HW-60285	Artificial Cooling of the Columbia River by Dam Regulation. Part 1. Use of Grand Coulee Storage to Cool Columbia River Water Above HAPO	Kramer, HA	1959
HW-58312	Columbia River Flow-Time Calculations	Soldat, JK	1958
HW-57671	Generalized River Model Tests with Heated Effluent at Bonneville Hydraulics Laboratory	Corley, JP	1958
HW-58312 REV	Columbia River Flow-Time Calculations	Soldat, JK	1962
HW-54225	Reactor Effluent Dilution Factors. Interim Report #1	Corley, JP	1957
HW-52880	Effects on Hanford Works of a Proposed Dam at Columbia River Mile 348	Jaske, RT, JP Corley, RB Hall, HA Kramer, et al	1957
HW-49084	Possibilities for Interrupting the Flow of the Columbia River Upstream from Hanford	Hughes, HR, and HA Kramer	1957
HW-70937	Reduction of Radioisotopes in Reactor Effluent Water	Hall, RB	1961
HW-82779 RD	Estimates of River Dilution Factors from Upstream Reactors	Corley, JP	1964
HW-41388	Hydrographic Information on Columbia River, 1954-1955; Supplemental Report to HW-30347	Wood, VW	1956
HW-39347	Temperature of the Columbia River Between Priest Rapids, Washington, and Umatilla, Oregon	Rostenbach, RE	1955
HW-41275	Columbia River Travel Time by Float Methods	Soldat, JK	1956
BNWL-B-71 PT 2	Radiological Considerations of Opening the Columbia River for Public Access Upstream from 100-F Area Part 2	Fisher, WL	1971
BNWL-B-71 PT 1	Radiological Considerations of Opening the	Fisher, WL	1971

	Columbia River for Public Access Upstream From 100-F Area Part 1		
BNWL-C-74	Radionuclide Concentrations in a Recent McNary Dam Sediment Core	Fisher, WL	1971
BNWL-B-452	Studies of Columbia River Water Quality. Annual Report	Onishi, Y, PA Johanson, RG Baca, and EL Hilty	1976
BNSA-16	Behavior and Transport of Radionuclides in the Columbia River Between Hanford and the Ocean	Perkins, RW, JL Nelson, and WL Haushild	1965
BNWL-2305	Association of Hanford Origin Radionuclides with Columbia River Sediment	Robertson, DE, and JJ Fix	1977
BNWL-2228	Mathematical Simulation of Sediment and Radionuclide Transport in the Columbia River	Onishi, Y	1977
HW-81063	Reactor Effluent Research and Development Program	Geier, RG	1964
HW-69368 Sec 6.1, 6.2	A Compilation of Basic Data Relating to the Columbia River, Radioactivity	Carter, LA	1960
RL-3-10	Richland Five-Year 02 R&D Program. Columbia River		1967
HW-61325 -&a6H	Significance of Rupture Debris in the Columbia River	McCormack, JD, and LC Schwendiman	1959

HW-60880	Scintillator Correlation and Columbia River Radiation Survey, March-April, 1959	McConiga, MW, and FL Rising	1959
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HW-50601	Effect of Reactor Purges When River Temperature Exceeds 15C	Koop, WN	1957
RL-4-10	Columbia River		1968
BNWL-CC-1411	Impact of Proposed Washington State Water Quality Standards on Hanford	Corley, JP, and JM Selby	1967
HW-20102	Deposition of Radioactivity in Rats Drinking Pile Effluent Water	Herde, KE	1951
HW-32506	Columbia River Survey 1951, 1952, 1953	Honstead, JF	1954
HW-41049	Columbia River Aspects of Increased Production	McMurray, PR	1956
HW-41026 (p. 20-33)	Radiological Sciences Department Quarterly Progress Report - Research and Development Activities, October-December, 1955	Parker, HM	1956
BNWL-B-492 RD	Comparison of Average Upstream and Downstream Temperatures 1963-64 and 1964-1965 Water Years	Corley, JP	1966
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BNWL-1543	A Bibliography of Ecological Publications Supported by the Atomic Energy Commission Related to Columbia River Thermal Effects Studies	Templeton, WL, and CC Coutant	1971
BNWL-1530	Behavior of Ultrasonic Tagged Chinook Salmon and Steelhead Trout Migrating Past	Coutant, CC	1973

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BNWL-1646	Potential Thermal Effects of an Expanding Power Industry: Columbia River Basin	Jaske, RT	1972
BNWC-82	Future River Temperatures at 181-N	Corley, JP	1965
BNWL-719	Thermal Modification of River Water Quality	Jaske, RT	1968
BNWL-208	An Evaluation of the Use of Selective Discharges from Lake Roosevelt to Cool the Columbia River	Jaske, RT	1966
BNWL-CC-2070	Columbia River Thermal Effects Study Quarterly Progress Report January-March, 1969	Foster, RF, and RE Nakatani	1969
BNWL-CC-2058	Mapping of a Reactor Coolant Effluent Ground Disposal Test Using an Infrared Imaging System and Ground Water Potential and Temperature Measurements	Eliason, JR	1969
BNWL-SA-845 ~&a6H	A Study of the Effects of Dam Construction	Jaske, RT, and JB Goebel	1966

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BNWL-CC-1931	1967 Columbia River Temperature Analysis	Honstead, JF, and RT Jaske	1968
BNWL-CC-2030	Columbia River Temperatures	Foster, RF	1969
BNWL-CC-1992	Progress Report on 02 Research and Development Mission 10 - Columbia River Studies July-December, 1968	Honstead, JF, and RT Jaske	1969
BNWL-CC-1460	New Washington State Water Quality Standards	Corley, JP, and JM Selby	1967
BNWL-CC-1851	Columbia River Model Study Transient Flow Conditions	Eliason, JR, and JW Ballowe	1968
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BNWL-CC-1378	A Mathematical Model of the Temperature and Current Distributions in a Deep Stratified Reservoir	Burnett, RA	1967
BNWL-CC-1359	A Preliminary Evaluation of the Thermal Effects of the Ben Franklin Dam Project on Columbia River Temperatures Below the Hanford Plant	Jaske, RT	1967
BNWL-CC-1411 ADD	Impact of Proposed Washington State Water Quality Standards on Hanford	Corley, JP, and JM Selby	1967
BNWL-CC-656	River Temperature Cycling at 181-D	Corley, JP	1966
BNWL-CC-591	Hanford Temperature Effects on Columbia River Fishes	Nakatani, RE, and RF Foster	1966
BNWL-CC-1074	Thermal Mapping of the Columbia River at Hanford using an Infrared Imaging System	Eliason, JR	1967
BNWL-CC-807	Inter-Reactor River Temperature Data	Corley, JP	1966
BNWL-1344	Simulation of the Effects of Hanford at the Washington Oregon Border	Jaske, RT, and DG Daniels	1970
BNWL-1527	Experiment Drifts of Juvenile Salmonids Through Effluent Discharges at Hanford Part II. 1969 Drifts and Conclusions	Becker, CD, CC Coutant, and EF Prentice	1971
BNWL-1345	Effect of Hanford Plant Operations on the Temperature of the Columbia River 1964 to Present	Jaske, RT, and MO Synoground	1970
BNWL-733	A Preliminary Evaluation of the Thermal Effects of the Ben Franklin Dam Project on Columbia River Temperatures Below the Hanford Plant	Jaske, RT	1968
BNWL-SA-1483	Digital Simulation System for Prediction of Water Quality	Jaske, RT	1967

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BNWL-SA-1631	A Special Case, Thermal Digital Simulation of Waste Heat Discharges	Jaske, RT, and JL Spurgeon	1968
BNWL-SA-1487	Temperature Tolerances of Young Chinook Salmon with Differing Developmental Temperatures	Coutant, CC, and JM Dean	1967
BNWL-SA-1724	Status of Chinook Salmon Spawning in the Hanford Reach of the Columbia River	Nakatani, RE	1968
BNWL-SA-1682	Biological Effects of Hanford Heat on Columbia River Fishes--A Review	Nakatani, RE	1968
BNWL-SA-1868	Effects of Heated Discharges on Anadromous Fishes	Nakatani, RE	1968
BNWL-SA-2536	Columbia River Temperature Trends - Facts and Fallacy	Jaske, RT	1969
BNWL-SA-3046	Temperature, Timing and Seaward Migration of Juvenile Chinook Salmon From the Central Columbia River	Becker, CD	1970
BNWL-SA-3583	Food and Feeding of Juvenile Chinook Salmon in the Central Columbia River in Relation to Thermal Discharges and Other Environmental Features	Becker, CD	1970
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BNWL-SA-3650	The Biological Cost of Discharging Heat to Rivers	Foster, RF, RT Jaske, and WL Templeton	0
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BNWL-SA-3876	Ecological Evaluation: Migration of Juvenile Salmon in Relation to Heated Effluents in the Central Columbia River	Becker, CD, CC Coutant, and EF Prentice	1971
BNWL-SA-5856	Comparative Cold Resistance of Three Columbia River Organisms	Becker, CD, RG Genoway, and MJ Schneider	1976
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DUN-959	The Columbia River Cooling Program, CY 1965	Adachi, WN, and JW Ballowe	1966
HW-3-2401	River Water Temperature Survey	Jordan, WE	1945
HAN-96780	Table--Average Monthly River Temperature		1967
HW-7-4674	Columbia River Temperature Survey at Hanford Engineer Works (Final Report) (M4200)	Osterloh, RH, and WR Lewis	1946
HW-7-3684	Columbia River Temperature Survey at Hanford Engineer Works (Preliminary Survey) (M-4199)	Osterloh, RH	1946
HW-29217	Temperature and Activity Density Gradients in a Columbia River Gravel Bed	Honstead, JF, and RG Clark	1953
HW-7-5243	Columbia River Temperature Study at 100F Area (M-3480)	Lewis, WR, and RA Rohrbacher	1946
HW-39449	Effect of Low River Flows on the Operation of Hanford Production Works Resulting from Operation of the Proposed Priest Rapids Dam	Snyder, JH	1955
HW-30347	A Summary of Columbia River Hydrographic Information Pertinent to Hanford Works - 1894-1954	Wood, VW	1954
HW-42926	Comparison of Columbia River Temperatures	Newell, LJ	1946

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HW-50183	Summary of K Reactor Outlet Temperature Limits	Hall, RE	1957
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HW-60808	Proposed Exploration Program Supporting Studies of the Effects on Hanford of a Dam at Columbia River Mile 348	Jaske, RT	1959
HW-60285 PT 3	Artificial Cooling of the Columbia River by Kramer, HA Dam Regulation. Part Three. Benefits Resulting from Use of Cold Water from the Depths of Grand Coulee Reservoir		1959
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HW-54858	The Effect on Fish of Increasing the Temperature of the Columbia River	Foster, RF	1958
HW-60285 PT 1	Artificial Cooling of the Columbia River by Dam Regulation. Part 1	Kramer, HA	1959
HW-60028	Water Temperatures for the Columbia River Above the Hanford Reactors, September 1946 through December 1958	Foster, RF, and PA Olson	1959
HW-65989	Reactor Effluent Outfall Structures - Status and Potential Problems	Corley, JP	1960
HW-68337 APP	Artificial Cooling of the Columbia River by Dam Regulation - 1960 - BEnefits Resulting from Use of Cold Water from the Depths of Grand Coulee Reservoir - 1960	Kramer, HA	1961
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HW-72433	A Compilation of Water Temperatures Near Grand Coulee Dam and in Environs of Lake Roosevelt	Kramer, HA	1962
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HW-75449 RD	Measured vs Calculated River Temperatures	Corley, JP	1962
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HW-80888	Effects of Hanford Operations on Columbia River Temperatures - Interim Report No. 2	Corley, JP	1964
HW-77170	Status of the Ground Water Beneath Hanford Reactor Areas January, 1962 to January, 1963	Brown	1963
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PNL-SA-6989	Diel and Seasonal White Sturgeon (Acipenser transmontanus) Movements in Relation to Columbia River Temperatures	Haynes, JH, RH Gray, and JC Montgomery	1978
BNWL-SA-5630	A "Filter-Resin" Sampling Method for Measurement of Radioactivity in Columbia River Water	Fix, JJ, and DE Robertson	1975
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HW-7175	River Water Sampling - Columbia River Water - Analysis of Variance	Butler, BF	1947
HW-3-159	Sampling of Effluent and River Water	Morris, EC	1944
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BNWL-316 APP	Evaluation of Radiological Conditions in the Vicinity of Hanford for 1965 Appendices	Foster, RF	1966
BNWL-433	Nuclear Safety Quarterly Report January, February, March, 1967	Albaugh, FW, JJ Fuquay, H Harty, EE Voiland, et al	1967
PNL-3269	Decline of Radionuclides in Columbia River Biota	Cushing, CE, DG Watson, AJ Scott, and JM Gurtisen	1980
BNWL-CC-835	Radiation Survey of the Columbia River Shoreline Near the Hanford Reactor Areas	Lodge, JD	1966
BNWL-SA-360	Periphyton Productivity and Radionuclide Accumulation in the Columbia River, Washington, USA	Cushing, CE	1965
BNWL-SA-2571	Accumulation of Radionuclides in Bed Sediments of the Columbia River Between Hanford Reactors and McNary Dam	Nelson, JL, and WL Haushild	1969
BNWL-SA-1248	Effect of Hanford Reactor Shutdown on Columbia River Biota	Watson, DG, CE Cushing, CC Coutant, and WL Templeton	1967
BNWL-SA-4545	A Study of Selected Parameters Affecting the Radiation Dose From Drinking Water Downstream of Nuclear Facilities	Denham, DH, and JK Soldat	1973
BNWL-SA-4023	In Situ Measurement of Radiation Dose in the Columbia River	Lappenbusch, WL, DG Watson, and WL Templeton	1970
BNWL-SA-4718	Decline of Radioactivity in Biota Following Shutdown of Hanford Reactors	Cushing, CE, and DG Watson	1973
BNWL-SA-4545 REV	A Study of Selected Parameters Affecting the Radiation Dose from Drinking Water Downstream of Nuclear Facilities	Denham, DH, and JK Soldat	1973
HW-36074	Radiobiological Studies of the Columbia River Through December, 1955	Davis, JJ, DG Watson, and CC Palmiter	1956
HW-46333 (p. 6-17)	Quarterly Progress Report. Research and Development Activities in the Field of Radiological Sciences July-September, 1956	Healy, JW	1956
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HW-23642	A Statistical Analysis of Measured River Contamination at Selected Shoreline Locations	Pilcher, GE	1952
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PNL-4527	Unsteady Flow Model of Priest Rapids Dam Releases at Hanford Reach, Columbia River, Washington	Sneider, SC, and RL Skaggs	1983
BNWL-1343	Cost Analysis of Improved Regulation of the Columbia River to Increase Minimum Flow in the Hanford Plant Vicinity	Legan, RW, and RT Jaske	1970
BNSA-176	Determination of Columbia River Flow Times Using Radioactive Tracers Introduced by the Hanford Reactors	Nelson, JL, RW Perkins, and WL Haushild	1965
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PNL-3250 (RHO-BWI-C-111)	High Temperature Determination of Radionuclide Distribution Coefficients for Columbia River Basalts	Ames, LL, and JE McGarrah	1980
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HW-54243 REV	The Hanford Atomic Project and Columbia River Pollution	Clukey, HV	1957
HW-31059	Operation of Both Sides of Reactor Effluent Retention Basin	Healy, JW	1954
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HW-17732	Special Meeting of the Columbia River Advisory Group - April 14, 1950 - Richland, Washington	Kornberg, HA	1950
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BNWL-SA-4449	A Statistical Study of Radiation Dose for Fishermen	Beetle, TM	1972
BNWL-SA-2812	The Hanford Story and It's Contribution of Radionuclides to the Columbia River Waters	Foster, RF	1969
BNWL-CC-1386	Radiation Survey of Islands and Beaches on the Columbia River Between Hanford and the 300 Areas	Bovingdon, JR	1966
BNWL-CC-783	Proposed Columbia River Monitor at the 100-F Area	Hall, RB	1966
BNWL-CC-2253	Operating Instructions for the Gross Gamma and Iodine Monitors at the Automatic Columbia River Monitoring Station	Denham, DH	1969
BNWL-CC-2110	Operation and Routine Maintenance of the Automatic Monitor for Hexavalent Chromium in Columbia River Water	Alton, DW	1969
BNWL-B-41	Dose and Calibration of the Automatic Columbia River Monitoring Station Iodine Monitor	Fisher, WL	1970
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BNWL-CC-637 6	Environmental Status of the Hanford Reservation for June, 1966	Essig, TH, and RB Hall	1966
BNWL-CC-468	Gamma Spectrum, Count Rate, and Dose Rate Measurements on the Columbia Riverbank from Vernita to Sacajawea	Grande, LA	1966
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HW-42946	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period October, November, December, 1955	Rostenbach, RE	1956
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BN-SA-1763	The Status of Rorippa Columbae in Washington	Sauer, RH, and J Leder	1983
BN-SA-1352	Mid-Columbia River Microflora	Neitzel, DA, TL Page, and RW Hanf, Jr	1981
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HW-SA-1784	Radioisotopes in a Municipal Water System Near the Hanford Atomic Products Operation	Junkins, RL	1960
HW-83614	Progress in Studies of Radionuclides in Columbia River Sediments. A Summary of	Nelson, JL, RW Perkins, and JM Nielsen	1964

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HW-66891	The Automatic Columbia River Monitoring Station	Mehas, TC	1960
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HW-45092	Tabulation of Reactor Effluent Water Contaminants in the Columbia River	Jackson, PO	1956
HW-45125	Influence of Purges During Reactor Operation on the Concentration of Radioisotopes in the Columbia River	Koop, WN	1956
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BNWL-SA-4203	Transport and Depletion of Radionuclides in the Columbia River	Robertson, DE, WB Silker, JC Langford, et al	1973
PNL-SA-8407	Decrease of Radionuclides in Columbia River Biota Following Closure of the Hanford Reactors	Cushing, CE, DG Watson, JM Gurtisen, and AJ Scott	1980
HW-20055	Effect of Hanford Pile Effluent Upon Aquatic Invertebrates in the Columbia River	Davis, JJ, and CL Cooper	1951
HW-SA-3198	Ground Water Exchange With Fluctuating Rivers	Raymond, JR, and OJ Brown	1963
BNWL-SA-1730	Accumulation of Radionuclides in Bed Sediments of McNary Reservoir of the Columbia River	Nelson, JL, and WL Haushild	1968
BNWL-SA-3712	Thermoluminescent Dosimetry of Aquatic Organisms	Watson, DG, and WL Templeton	1971
BNWL-SA-3364	Cycling of Radionuclides in Columbia River Biota	Watson, DG, CE Cushing, CC Coutant, and WL Templeton	1970
BNWL-SA-317	Reactions of Radionuclides from the Hanford Reactors with Columbia River Sediments	Nelson, JL, RW Perkins, and JM Nielsen	1965
BNWL-CC-1056	The Environmental Effects of an Extended Hanford Plant Shutdown	Foster, RF, and JP Corley	1967
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HW-72215	Pilot Scale Aluminum Bed Decontamination of Reactor Effluent	Rieck	1962
HW-71718	Effect of High Alum Feed on the Release of P-32 to the Columbia River	Hall, RB	1961
HW-55292	Effect of Separan on Rainbow Trout	Olson, PA, and RF Foster	1958
HW-61247 (p. 2-15)	Quarterly Progress Report. Research and Development Activities in the Field of Radiological Sciences April-June, 1959	Healy, JW	1959
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BNWL-1505	Evaluation of Radiological Conditions in the Vicinity Of Hanford for 1969	Corley, JP, CB Wilson, and TH Essig	1970
BNWL-SA-1451	A Statistical Study of the Habits of Fishermen Utilixing the Columbia River Below Hanford	Soldat, JK	1968
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BNWL-SA-5484	Association of Long-Lived Radioactivity with Sediment Along the Columbia River Shoreline, Islands, Bottom and Slough Areas	Fix, JJ	0
BNWL-SA-601	Evaluation of the Exposure that Results from the Disposal of Radioactive Wastes into the Columbia River	Foster, RF, and JK Soldat	1966
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HW-70706	Some Radioactive Materials Measured in Various Waters in the United States. A Literature Search	Soldat, JK	1961
BNWL-CC-1703	Phase II - Final Report - Freshwater Ecology - Bioenvironmental and Radiological-Safety Feasibility Studies - Atlantic-Pacific Interoceanic Canal	Templeton, WL, JM Dean, DG Watson, and LA Rancitelli	1968
HW-SA-3421	North American Experience in the Release of Low-Level Waste to Rivers and Lakes	Parker, HM, RF Foster, IL Ophel, FL Parker, WC Reinig	1964
BNWL-SA-2028	Effects of Hydroelectric Power Developments	Touhill, CJ	1968
BNWL-SA-4614	Sources and Inventory of Radioactivity in the Aquatic Environment	Foster, RF	1973
HW-22862	Radiological Survey of the Pasco, Washington Water Treatment Plant	Soldat, JK, and RC Thorburn	1951
HW-24356	Permissible Limits - Release of Reactor Effluent to the Columbia River	Parker, HM	1952
HW-23793	Radiobiological Problems in the Columbia River	Foster, RF	1949
HW-27641	Radioactive Contamination in the Environs of the Hanford Works for the Period October, November, December, 1952	Paas, HJ	1953
HW-27510	Radioactive Contamination in the Environs of the Hanford Works for the Period July, August, September, 1952	Paas, HJ	1953
HW-33896	Radioactive Contamination in Hanford Environs for the Period April, May, June, 1954	Paas, HJ, and GE Pilcher	1954
HW-39429	Radioactive Contamination in the Hanford Environs for the Period July, August, September, 1955	Andersen, BV, and JK Soldat	1955
HW-48523	Concentration of Radioisotopes in Columbia River Whitefish in the Vicinity of the Hanford Atomic Products Operation	Watson, DG, and JJ Davis	1957
HW-42403 (p. 1-15)	Radiological Sciences Department Quarterly Progress Report - Research and Development Activities, January-March, 1955	Parker, HM	1956
HW-57411	Calculation of Drinking-Water Radiation Exposures from Columbia River Water Sources	Clukey, HV, and MW McConiga	1958
HW-73672	Dispersion of 300 Area Liquid Effluent in the Columbia River	Backman, GE	1962
HW-76153	Effect of a Reactor Fuel Element Failure on the Columbia River Radionuclide Concentrations at Pasco, Washington	Perkins, RW	1962
HW-SA-2688	Relationships between the Concentration of Radionuclides in Columbia River Water and	Foster, RF, and D McConnon	1962

	Fish		
HW-SA-2411	The Removal of Radioisotopes from the Columbia River by Natural Processes	Nielsen, JM, and RW Perkins	1962

Project: Columbia River Comprehensive Impact Assessment
Item: Data Compendium for the Columbia River Comprehensive
Impact Assessment, Appendix B (File #2)
Title: Unclassified Titles of Formerly Classified Documents
Date: April 1994

Hanford Technical Library
Declassified Document Tracking System

Document Number	Document Title	Date
HW-69368-Sec-012	Compilation of Basic Data Relating to the Columbia River: Section 0, Preface; Section 1, (General Description of the Columbia River); Section 2, (A Bibliography of Selected Hanford Reports).	
HW-23793-,CONF-4904021	Radiobiological Problems in the Columbia River.	
HW-7-2346	Status of Problem of measurement of the Activity of Waste Water Returned to the Columbia River.	09/11/1945
HW-35402	Trend of Contamination Observed in the Air, Columbia River, and Vegetation, at the Hanford Engineer Works for 1946.	03/27/1947
HW-35511	Trend of Contamination Observed in the Air, the Columbia River, Vegetation, and Waste at the Hanford Engineer Works, January 1-March 25, 1947.	05/09/1947
HW-69368-Sec-3	Compilation of Basic Data Relating to the Columbia River: Section 3, Temperature.	11/11/1961
HWSA-3060	Accumulation of Zn Sup 65 from Prolonged Consumption of Columbia River Fish.	05/29/1963
HW-SA-2171	Columbia River Continuous Monitoring System.	
GEH-18774	Concentration of Gross Radioactivity in the Columbia River.	
GEH-19226	Summary Report of Joint Quarterly Meeting Columbia River Advisory Group, U.S. Public Health Service, Atomic Energy Commission, General Electric Company, Richland, October 22-23, 1951.	
HW-3-2426	Turbidity Coagulant for Columbia River Water.	05/17/1945

HW-7-2306	Minutes of Meeting on Columbia River Studies.	07/13/1945
HW-7-2514	Fish Life Observed in the Columbia River on September 27, 1945.	09/27/1945
HW-7-3684	Columbia River Temperature Survey at Hanford Engineer Works - Preliminary Survey {M-4199}.	03/01/1946
HW-7-4674	Columbia River Temperature Survey at Hanford Engineer Works - Final Report (M-4200).	08/14/1946
HW-7-5243	Columbia River Temperature Study at 100-F Area.	10/30/1946
HW-3-5402	Trend of Contamination Observed in the Air, Columbia River, and Vegetation, at the Hanford Engineer Works for 1946.	03/27/1947
HW-3-5511	Trend of Contamination Observed in the Air, the Columbia River, Vegetation, and Waste at the Hanford Engineer Works for the Period January 1, 1947 to March 25, 1947.	05/09/1947
HW-7175	River Water Sampling - Columbia River Water - Analysis of Variance.	07/24/1947
HW-7317	Trend of Contamination in the Air, the Columbia River, Vegetation, and Waste at the Hew for the Period 3/25/47 - 6/30/47.	08/12/1947
HW-7538	River Water Sampling - Columbia River - Determination of Necessity of Cross Sectional Sampling.	09/15/1947
HW-7791	Investigation of Contamination Bearing Algae in the Columbia River.	10/13/1947
HW-8549	Trend of Contamination in the Air, the Columbia River, Rain, Sanitary Water, Vegetation, and Wastes, at the Hanford Works for the Period July, August, September 1947.	12/28/1947
HW-8549-DEL	Trends of Contamination in Air, Columbia River, Rain, Sanitary Water, Vegetation and Wastes at HW and Vicinity.	12/28/1947
HW-8791	The Probable Effect of the Grand Coulee Irrigation Project on the Quality of Columbia River Water.	02/06/1948

HW-9496	The Trend of Contamination in the Air, Columbia River, Rain, Sanitary Water, Vegetation and Wastes, at the Hanford Works and Vicinity for the Period October, November, December, 1947.	03/20/1948
HW-9496-DEL	The Trend of Contamination in the Air, Columbia River, Rain, Sanitary Water, Vegetation and Wastes, at the Hanford Works and Vicinity for the Period October, November, December, 1947.	03/20/1948
HW-9871	Radioactive Contamination in the Columbia River and in the Air and Radiation Levels Measured in the Air at Hanford Works and Vicinity for 1945, 1946, 1947, and Early 1948.	05/24/1948
HW-11344	One Year Study of Radioactivity in Columbia River Fish.	10/25/1948
HW-31882	Columbia River Flood 1948.	11/01/1948
HW-11662	Accumulation of Radioactivity as Shown by a Limnological Study of the Columbia River in the Vicinity of Hanford Works.	11/12/1948
HW-11861	Occurrence of Dead Whitefish in the Columbia River During December, 1948.	12/15/1948
HW-12079	Radioactivity in Pekin Ducks on the Columbia River.	01/07/1949
HW-12574	Proposed Radiobiological - Ecological Survey of the Columbia River.	02/09/1949
HW-12079	Supplement to Proposed Radiobiological - Ecological Survey of the Columbia River.	02/21/1949
HW-12573	Cursory Survey of the Radioactivity in Biological Materials of the Lower Columbia River.	02/23/1949
HW-23793	Radiological Problems in the Columbia River.	04/13/1949
HW-15861	Meeting of the Columbia River Advisory Group November 21-23, 1949.	02/02/1950
HW-17595	Meeting of the Columbia River Advisory Group March 6-7, 1950.	4/21/1950
HW-17732	Special Meeting of the Columbia River Advisory Group April 14, 1950 - Richland, Washington.	04/27/1950

HW-20055	Effect of Hanford Pile Effluent Upon Aquatic Invertebrates in the Columbia River.	01/19/1951
HW-21074	Review of Columbia River Studies Program - H.I. Development Division.	05/10/1951
HW-22181	Columbia River Symposium Second Meeting, 21-22 May, 1951, Richland, Washington.	07/05/1951
HW-22851	Columbia River Survey - Preliminary Report.	12/14/1951
HW-22851-DEL	Columbia River Survey - Preliminary Report.	12/14/1951
HW-24356	Permissible Limits - Release of Reactor Effluent to the Columbia River.	05/06/1952
HAN-45160	Estimate of the Volume of Air Flowing Through the Gorge of the Columbia River.	06/16/1952
HW-23093	Accumulation of Radioactivity in Columbia River Fish in the Vicinity of the Hanford Works.	07/01/1952
HW-25167	Manufacturing Department Operating Standards for the Release of Reactor Effluent to the Columbia River.	08/08/1952
HW-28467	Columbia River Water as a Pile Coolant.	06/23/1953
HW-25191	Abundance of the Principal Crustacea of the Columbia River and the Radioactivity they Contain.	06/25/1953
HW-28778	A Program for Testing Raw Columbia River Water as a Pile Coolant.	07/21/1953
HW-29298	Preliminary Comparison of the Nannoplankton and Net Plankton of the Columbia River.	09/10/1953
HW-6572-2	Radioactivity Density Studies of Columbia River Organisms, Book I.	01/11/1954
HW-30834	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period July, August, September 1953.	01/22/1954
HW-31558	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period October, November, December 1953.	04/01/1954
HW-32122	Comments on Columbia River Water	06/14/1954

	Quality Studies - Preliminary Draft.	
HW-32449	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period January, February, March 1954.	07/07/1954
HW-32506	Columbia River Survey 1951, 1952, 1953.	07/21/1954
HW-32809	Columbia River Situation.	08/19/1954
HW-33366	Studies on the Effect of the Hanford Reactors on Aquatic Life in the Columbia River.	10/11/1954
HW-34135	Radioactivity levels of the Columbia River Below Richland, Washington for the Period April, May, June 1954.	12/10/1954
HW-36862	Influence of Hanford Reactors on Domestic Use of Columbia River Water.	05/25/1955
HW-38048	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period July, August, and September 1954.	07/13/1955
HW-38049	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period October, November, and December 1954.	07/13/1955
HW-38077	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period January, February, March 1955.	07/18/1955
HW-39632	Radioactivity Levels of the Columbia River Below Richland, Washington April, May, June 1955.	10/21/1955
HW-41849	Flow Patterns in Disposal to the Columbia River.	12/06/1955
HW-40699	Radioactive Contamination in Reactor Effluent Using Unfiltered Columbia River Water as a Coolant.	12/28/1955
HW-40712	Radioactivity Density Studies of Columbia River Organisms - Book No.2.	01/03/1956
HW-41275	Columbia River Travel Time Measurements by Float Methods.	01/04/1956
HW-41049	Columbia River Aspects of Increased Production.	01/25/1956

HW-42181	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period July, August, September 1955.	03/22/1956
HW-42953	Radioactivity Levels and Temperature Variations of the Columbia River.	04/30/1956
HW-42946	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period October, November, December 1955.	05/01/1956
HW-43529	Columbia River Survey - 1954 - 1955.	05/10/1956
HW-45124	Review and Analysis of Hydrological and Radiochemical Columbia River Surveys.	08/29/1956
HW-45125	Influence of Purges During Reactor Operation on the Concentration of Radioisotopes in the Columbia River.	08/31/1956
HW-45092	Tabulation of Reactor Effluent Water Contaminants in the Columbia River January - May 1956.	08/31/1956
HW-45983	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period January, February, March 1956.	10/09/1956
HW-46094	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period April, May, June 1956.	10/17/1956
HW-36074	Radiobiological Studies of the Columbia River Through December, 1955.	11/07/1956
HW-46709	Tabulation of Reactor Effluent Water Contaminants in the Columbia River June-July-August 1956.	11/14/1956
HW-47170	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period July, August, September 1956.	12/10/1956
HW-47261	Tabulation of Reactor Effluent Water contaminants in the Columbia River September 1956.	12/17/1956
HW-47261-REV	Tabulation of Reactor Effluent Water Contaminants in the Columbia River September 1956 Revision.	12/17/1956
HW-47811	Tabulation of Reactor Effluent Water Contaminants in the Columbia River October 1956.	01/14/1957

HW-48469	Minutes of the Columbia River Advisory Group Meeting February 7-8, 1957.	02/12/1957
HW-48523	Concentration of Radioisotopes in Columbia River Whitefish in the Vicinity of the Hanford Atomic Products Operation.	02/18/1957
HW-49008	Dispersion of Dissolved Material in the Columbia River.	03/12/1957
HW-49214	Method of Calculating Columbia River Drinking Water Exposure.	03/18/1957
HW-48530	Tabulation of Reactor Effluent Water Contaminants in the Columbia River November-December 1956.	03/22/1957
HW-49713	Recommended Limit on Addition of Dichromate to the Columbia River.	04/17/1957
HW-49840	Radioactivity Levels of the Columbia River Below Richland, Washington for the Period October, November, December 1956.	04/23/1957
HW-49843	Tabulation of Reactor Effluent Water Contaminants in the Columbia River January-March 1957.	05/01/1957
HW-50769	Tabulation of Reactor Effluent Water Contaminants in the Columbia River April 1957.	06/14/1957
HW-51397	Tabulation of Reactor Effluent Water Contaminants in the Columbia River May 1957.	07/17/1957
HW-52401	Dilution of 300 Area Uranium Wastes Entering the Columbia River.	09/09/1957
HW-52908	Depletion of Radioisotopes from the Columbia River by Natural Processes.	10/04/1957
HW-54243-REV	Hanford Atomic Project and Columbia River Pollution.	12/20/1957
HW-54858	Effect on Fish of Increasing the Temperature of the Columbia River.	03/14/1958
HW-68720	The Effect on Fish of Increasing the Temperature of the Columbia River.	03/14/1958
HW-55950	Effects on Hanford Works of a Navigation Channel in the Columbia River.	06/06/1958

HW-56390	Determination of Gallium-72 in Reactor Effluent Water and Columbia River Water.	06/13/1958
HW-56623	Hanford Mid-Year Report to Columbia River Advisory Group.	07/07/1958
HW-57411	Calculation of Drinking-Water Radiation Exposures from Columbia River Water Sources.	09/16/1958
HW-59116	Hanford Semi-Annual Report to Columbia River Advisory Group - Through December, 1958.	02/03/1959
HW-60285 PT3	Artificial Cooling of the Columbia River by Dam Regulation. Part Three - Benefits Resulting from Use of Cold Water from the Depths of Grand Coulee Reservoir.	05/25/1959
HW-61029-REV	Hanford Mid-Year Report to Columbia River Advisory Group - Through June, 1959.	08/11/1959
HW-61325	Significance of Rupture Debris in the Columbia River.	08/17/1959
HW-60880	Scintillator Correlation and Columbia River Radiation Survey March - April, 1959.	09/15/1959
HW-63765	Columbia River Scale Model (Project CAI-868, Rev. 1).	02/12/1960
HW-64517	Effect of Proposed HAP0 Reactor Production Increases on Radioactivity Discharged to the Columbia River.	03/29/1960
HW-65767	Artificial Cooling of the Columbia River by Dam Regulation.	06/20/1960
HW-65767 APP	Artificial Cooling of the Columbia River by Dam Regulation, 1959. Benefits Resulting from use of Cold Water from the Depths of Grand Coulee Reservoir, 1959.	06/24/1960
HAN-76336	Artificial Cooling of the Columbia River by Dam Regulations 1959.	06/24/1960
HW-66026	MPC's for Ingestion of Rare Earths in Columbia River Water.	09/01/1960
HW-66885RD	Columbia River Scale Model, Rev 2 (Project CAI-868).	09/26/1960
HW-66891	Automatic Columbia River Monitoring Station.	10/06/1960

HW-66885	Columbia River Scale Model, Rev 2 (Project CAI-868).	10/18/1960
HW-68096	Columbia River Conditions.	01/10/1961
HW-68224	Reactor Test Program for Columbia River Radioisotope Reduction Studies.	01/20/1961
HW-68337	Artificial Cooling of the Columbia River by Dam Regulation 1960.	02/15/1961
HW-69723	Existing and Proposed Studies at HAPO Relating to the Columbia River.	05/24/1961
HW-70526	Contamination Control - Columbia River - Monthly Report June 1961.	07/21/1961
HW-70784	Contamination Control - Columbia River - Monthly Report August 1961.	08/18/1961
HW-71105	Contamination Control - Columbia River - Monthly Report September 1961.	09/20/1961
HW-71411	Contamination Control - Columbia River - Monthly Report October 1961.	10/20/1961
HW-71718	Effect of High Alum Feed on the Release of P-32 to the Columbia River.	11/09/1961
HW-69368-3	Compilation of Basic Data Relating to the Columbia River.	11/11/1961
HW-69368-4,5	Compilation of Basic Data Relating to the Columbia River.	11/11/1961
HW-69368-6.1,6.2	Compilation of Basic Data Relating to the Columbia River.3	11/11/1961
HW-69368-6.3,7	Compilation of Basic Data Relating to the Columbia River.	11/11/1961
HW-69368-0,1,2	Compilation of Basic Data Relating to the Columbia River, Sections 0,1,2.	11/11/1961
HW-71724	Contamination Control - Columbia River - Monthly Report November 1961.	11/20/1961
HW-72065	Contamination Control - Columbia River - Monthly Report December 1961.	12/20/1961
HW-72381	Contamination Control - Columbia River - Monthly Report January 1962.	01/22/1962
HW-72744	Contamination Control - Columbia River - Monthly Report February 1962.	02/20/1962

HW-73098	Contamination Control - Columbia River - Monthly Report March 1962.	03/21/1962
HW-SA-2411	Removal of Radioisotopes From the Columbia River by Natural Processes.	04/10/1962
HW-73453	Contamination Control - Columbia River - Monthly Report April 1962.	04/23/1962
HW-73708	Contamination Control - Columbia River - Monthly Report Map 1962.	05/21/1962
HW-73672	Dispersion of 300 Area Liquid Effluent in the Columbia River.	05/25/1962
HAN-82861	Artificial Cooling of the Columbia River by Dam Regulation 1961.	06/15/1962
HW-73707	Artificial Cooling of the Columbia River by Dam Regulation 1961.	06/15/1962
HW-74049	Contamination Control - Columbia River - Monthly Report June 1962.	06/20/1962
HW-58312-REV	Columbia River Flow Time Calculations.	07/01/1962
HW-74357	Contamination Control - Columbia River - Monthly Report July 1962.	07/19/1962
HW-SA-2688	Relationships Between the Concentration of Radionuclides in Columbia River Water and Fish.	07/25/1962
HW-72229-REV	Dose-Rate Measurements of Beaches and Islands on the Columbia River Between Ringold and Richland.	08/10/1962
HW-74661	Contamination Control - Columbia River - Monthly Report August 1962.	08/17/1962
HW-74983	Contamination Control - Columbia River - Monthly Report September 1962.	09/19/1962
HW-75076	Columbia River Environmental Monitoring Program.	10/01/1962
HW-75311	Contamination Control - Columbia River - Monthly Report October 1962.	10/19/1962
HW-69369	Compilation of Basic Data Relating to the Columbia River Section 8.	11/16/1962
HW-75658	Contamination Control - Columbia River - Monthly Report November 1962.	11/26/1962

HW-SA-2857	Interspecies Differences in Accumulation of Gamma Emitters by Marine Organisms Near the Columbia River Mouth.	12/18/1962
HW-75949	Contamination Control - Columbia River - Monthly Report December 1962.	12/20/1962
HW-76022	Control of Information on Columbia River	12/27/1962
HW-76153	Effect of a Reactor Fuel Element Failure on the Columbia River Radionuclide Concentrations at Pasco, Washington.	12/27/1962
HW-76266	Contamination Control - Columbia River - Monthly Report January 1963.	01/21/1963
HW-76210	Effects of Hanford Operations on Columbia River Temperatures Interim Report.	02/13/1963
HW-76637	Contamination Control - Columbia River - Monthly Report February 1963.	02/20/1963
HAN-86014	Artificial Cooling of the Columbia River by Dam Regulations.	03/07/1963
HW-76887	Artificial Cooling of the Columbia River by Dam Regulation 1962.	03/07/1963
HW-76989	Contamination Control - Columbia River - Monthly Report March 1963.	03/20/1963
HW-77361	Contamination Control - Columbia River - Monthly Report April 1963.	04/23/1963
HW-77707	Contamination Control - Columbia River - Monthly Report May 1963.	05/24/1963
HW-SA-3060	Accumulation of An-65 from Prolonged Consumption of Columbia River Fish.	05/29/1963
HW-77975	Contamination Control - Columbia River - Monthly Report June, 1963.	06/20/1963
HW-78319	Contamination Control - Columbia River - Monthly Report July, 1963.	07/19/1963
HW-SA-3147	Variations in Elemental Concentrations in the Columbia River.	07/22/1963
HW-78736	Contamination Control - Columbia River - Monthly Report August, 1963.	08/22/1963
HW-78988	Contamination Control - Columbia River - Monthly Report September, 1963.	09/20/1963

HW-79186	Radiological Monitor for the Columbia River.	10/01/1963
HW-79279	Preliminary Measurements of the Absorption of Reactor Effluent Water Radionuclides by Columbia River Particulate Material.	10/16/1963
HW-79378	Contamination Control - Columbia River - Monthly Report October, 1963.	10/28/1963
HW-79741	Contamination Control - Columbia River - Monthly Report November, 1963.	11/27/1963
HW-80095	Contamination Control - Columbia River - Monthly Report December, 1963.	12/20/1963
HW-80520	Contamination Control - Columbia River - Monthly Report January, 1964.	01/22/1964
HW-80649	Report to the Working Committee for Columbia River Studies on Progress Since September, 1962 for Projects Carried out by the General Electric Company at Hanford.	02/01/1964
HW-81055	Contamination Control - Columbia River - Monthly Report February 1964.	02/28/1964
HW-81567	Contamination Control - Columbia River - Monthly Report March 1964.	03/31/1964
HW-81873	Contamination Control - Columbia River - Monthly Report April 1964.	04/20/1964
HW-81306	Analysis of Waste Released by Seepage to the Columbia River from the 1301-N Crib.	04/30/1964
HW-82491	Contamination Control - Columbia River - Monthly Report May 1964.	05/28/1964
HW-83018	Contamination Control - Columbia River - Monthly Report June 1964.	06/25/1964
HW-83392	Contamination Control - Columbia River - Monthly Report July 1964.	07/24/1964
HW-83775	Contamination Control - Columbia River - Monthly Report August 1964.	08/24/1964
HW-84253	Contamination Control - Columbia River - Monthly Report September 1964.	09/25/1964
HW-83614	Progress in Studies of Radionuclides in Columbia River Sediments.	12/01/1964

RL-REA-0230	Contamination Control - Columbia River - Monthly Report November, 1964.	12/02/1964
RL-REA-374	Contamination Control - Columbia River - Monthly Report December, 1964.	01/07/1965
RL-REA-569	Contamination Control - Columbia River - Monthly Report January 1965.	01/29/1965
RL-REA-683	Contamination Control - Columbia River - Monthly Report February 1965.	02/18/1965
RL-REA-915	Contamination Control - Columbia River - Monthly Report March 1965.	03/26/1965
RL-REA-1098	Contamination Control - Columbia River - Monthly Report April 1965.	04/28/1965
RL-REA-2137	Contamination Control - Columbia River - Monthly Report May 1965.	05/24/1965
RL-REA-2160	Release of Radioactivity to the Columbia River from Irradiated Fuel Element Ruptures.	05/27/1965
RL-REA-2275	Contamination Control - Columbia River - Monthly Report June 1965.	07/07/1965
RL-REA-2336	Contamination Control - Columbia River - Monthly Report July 1965.	07/21/1965
RL-REA-2505	Contamination Control - Columbia River - Monthly Report August 1965.	09/02/1965
RL-REA-2572	Contamination Control - Columbia River - Monthly Report September 1965.	09/24/1965
RL-REA-2716	Contamination Control - Columbia River - Monthly Report October 1965.	10/29/1965
DUN-225	Monthly Report Contamination Control - Columbia River November 1965.	12/01/1965
DUN-615	Monthly Report Contamination Control - Columbia River January 1966.	01/31/1966
DUN-772	Monthly Report Contamination Control - Columbia River February 1965.	02/28/1966
DUN-914	Monthly Report Contamination Control - Columbia River March 1966.	04/01/1966
DUN-1008	Monthly Report Contamination Control - Columbia River April 1966.	04/28/1966

DUN-1139	Monthly Report Contamination Control - Columbia River May 1966.	06/03/1966
DUN-1248	Monthly Report Contamination Control - Columbia River June 1966.	07/01/1966
DUN-1381	Monthly Report Contamination Control - Columbia River July 1966.	08/08/1966
DUN-1585	Monthly Report Contamination Control - Columbia River August 1966.	09/30/1966
DUN-1631	Monthly Report Contamination Control - Columbia River September 1966.	10/20/1966
DUN-1729	Monthly Report Contamination Control - Columbia River October 1966.	11/21/1966
DUN-1854	Monthly Report Contamination Control - Columbia River November 1966.	12/15/1966
DUN-1906	Monthly Report Contamination Control - Columbia River December 1966.	01/11/1967
DUN-2029	Monthly Report Contamination Control - Columbia River January 1967.	02/01/1967
DUN-2243	Monthly Report Contamination Control - Columbia River February 1967.	03/24/1967
DUN-2273	Summary Report Reduction of Radioactivity and Thermal Energy Discharged to the Columbia River.	03/31/1967
DUN-2361	Monthly Report Contamination Control - Columbia River March 1967.	04/19/1967
DUN-2498	Monthly Report Contamination Control - Columbia River April 1967.	05/22/1967
DUN-2942	Quarterly Report Contamination Control Columbia River April - June 1967.	08/07/1967
DUN-4477	Quarterly Report Contamination Control Columbia River January - March 1968.	07/22/1968
DUN-4847	Quarterly Report Contamination Control Columbia River April, May, June 1968.	10/15/1968
BNWL-CC-1931	1967 Columbia River Temperature Analysis	11/01/1968
DUN-5030	Quarterly Report Contamination Control Columbia River July - September 1968.	11/15/1968
DUN-5563	Quarterly Report Contamination Control	03/10/1969

	Columbia River October - December 1968.	
DUN-6205	Chemicals Discharged to the Columbia River from DUN Facilities, Fiscal Year 1969.	09/18/1969
DUN-7162	Chemicals Discharged to the Columbia River from DUN Facilities, Fiscal Year 1970.	09/04/1970

Appendix C

Description of Databases

Access to Hanford Originated Databases

Several Hanford-related databases have already been identified as part of the TPA process (Brulotte and Christensen 1993). Access to these databases has been provided to Ecology and EPA. The following list identifies the Hanford TPA-related databases:

- Environmental Release System (ERS)
- Hanford Environmental Information System (HEIS)
- Hanford Geographical Information System (HGIS)
- Hanford Meteorological System (HMS)
- Liquid Effluent Monitoring Information System (LEMIS)
- Project and Data Management System (PDMS) in HEIS
- Solid Waste Information and Tracking System (SWITS)
- Surveillance Analysis Computer System (SACS)
- Tank Characterization Database (TCD)
- Waste Information Data System (WIDS).

As documented in Section 5.3 of Brulotte and Christensen, some of the databases data will be accessed using HEIS, and a few databases will not have direct computer access. Brulotte and Christensen also provide an abstract of the data contained in each database. Based on those abstracts, and also on discussions with several database stewards, the following databases may contain data useful to the CRCIA: ERS, HEIS, HGIS, LEMIS, PDMS, and WIDS.

CRCIA staff will work with DOE to establish a method for granting database access for those interested organizations or individuals who wish to perform their own analyses. The method being considered at this time is grant access to the information through the process set up by TPA agencies (Brulotte and Christensen 1993). This process allows an electronic guest access for individuals who are not DOE, EPA, or Ecology employees.

Northwest Environmental Database

The Northwest Environmental Database (NED) contains information on rivers in Idaho, Montana, Oregon, and Washington. Data categories include: anadromous fish, resident fish, wildlife, natural features, cultural resources, recreation, institutional constraints, and water quality. Each of the four states maintains a Rivers Information System accessible to members of the public with a personal computer. Contacts include:

- Martin Hudson, Washington Rivers Information System, Washington Department of Wildlife, Habitat Management Division, (206) 664-0383.
- Tom Pansky, Northwest Environmental Data Base Regional Coordinator, (503) 230-3969
- Steve Gordon, Northwest Environmental Data Base Regional Data Manager, (503)

- 230-5063
- Peter Paquet, Northwest Power Planning Council, (503) 222-5161
- Surface Environmental Surveillance Project Database
- Activities on the SESP project includes sampling of river water, sediments, river banks, springs, fish, clams, crayfish, and riparian vegetation. Shoreline radiation dosimeters continuously collect monitoring data. Only radionuclides are monitored. The data are reported annually with spreadsheets available electronically. These data are being transferred into HEIS, but the transfer is not yet complete. The contact person for this database is Roger Dirkes, Pacific Northwest Laboratory, P.O. Box 999, Richland, WA, 99352.
- Wildlife Resources Project
- The 100 Area monitoring is designed to study effluents from the nuclear facilities, particularly the seeps and discharges from buildings, drain fields, and trenches. Springs and near-river soils, vegetation, and the ground water are monitored. Some small animal collection is done and near-river studies of soil and vegetation have been done near the 100 Area facilities. Data from these activities are reported annually and the associated databases are available electronically. These data are also being transferred into HEIS, but the transfer is not yet complete. The contact person for this database is Ted Poston, Pacific Northwest Laboratory, P.O. Box 999, Richland, WA, 99352.
- Hanford Dose Reconstruction Project (PNL)
- Four databases of historical information were generated by the Hanford Environmental Dose Reconstruction Project (HEDR). Brief database descriptions are:
- The Hanford Information Resource Tracking System (HIRTS) contains bibliographical information on all documents examined for the HEDR project. This database is available in the DOE Reading Room in Richland.
 - The Environmental Monitoring Document Database (EMDD) contains an annotated bibliography of all the documents that contained key information for the air and river dose estimates prepared by the HEDR project. This database is available in the DOE Reading Room in Richland in both electronic and paper forms.
 - A database was also developed by the HEDR project to manage all of the data required to construct estimates of the release of radionuclides to the Columbia River for dose reconstruction purposes (Heeb and Bates 1994). This database is available in the DOE Reading Room in Richland.
 - A compilation of approximately 33,000 measurements of radioactivity in water, fish, and wildlife was developed for the HEDR project (Thiede and Duncan 1994). This database is also available in the DOE Reading Room in Richland.

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Thiede, M. E. and J. P. Duncan. 1994. Database of Radionuclide Measurements in Columbia River Water, Fish, Water Fowl, Game Birds, and Shellfish Downstream from Hanford Single-Pass Production Reactors, 1960-1970. PNWD-2242 HEDR, Battelle, Pacific Northwest Laboratories. Richland, Washington.

Appendix D

Documents Already in the Public Domain

Appendix D is included in electronic form on the accompanying diskette in the file APPENDIX.D. It contains references to 1750 documents that can be found at the DOE Reading Room in Richland.

Project: Columbia River Comprehensive Impact Assessment
Item: Data Compendium for the Columbia River Comprehensive
Impact Assessment, Appendix D
Title: Documents Already in the Public Domain
Date: April 1994
4/26/94

All Records Equal To Ident "Reading"

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	1983 FISHERIES STATISTICAL REPORT 1987 HANFORD ANNUAL REPORT...PLANNING FOR THE FUTURE ANALYSIS OF LEGAL & INSTITUTIONAL ISSUES IN ACQUIRING WPPSS'S PARTIALLY ANNUAL REPORT FOR CALENDAR YEAR 1991 ARTIFICIAL FLOOD POSSIBILITIES ON THE COLUMBIA RIVER BEN FRANKLIN LOCK, DAM AND RESERVOIR, COLUMBIA RIVER, WASHINGTON CALCULATION OF ANNUAL DOSES TO MAN FROM ROUTINE RELEASES OF REACTOR COLUMBIA RIVER THERMAL EFFECTS STUDY; VOL. 1 BIOLOGICAL EFFECTS STUDIES DESCRIPTION OF PNL GROUNDWATER MODEL FOR MOBILE RADIONUCLIDES AND DRAFT IMPLEMENTATION PLAN FOR THE PROGRAMMATIC ENVIRONMENTAL IMPACT ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT FIVE-YEAR PLAN REVISED ENVIRONMENTAL CONCERNS-1984 ENVIRONMENTAL RADIATION PROGRAM, 21ST ANNUAL REPORT, JULY 1981-JUNE 1982 ENVIRONMENTAL RADIATION SURVEILLANCE, IN WASHINGTON STATE, 11TH ANNUAL ENVIRONMENTAL RADIATION SURVEILLANCE, IN WASHINGTON STATE, 12TH ANNUAL ENVIRONMENTAL RADIATION SURVEILLANCE, IN WASHINGTON STATE, 13TH ANNUAL ENVIRONMENTAL RADIATION SURVEILLANCE, IN WASHINGTON STATE, 14TH ANNUAL ENVIRONMENTAL RADIATION SURVEILLANCE, IN WASHINGTON STATE, 15TH ANNUAL ENVIRONMENTAL REVIEW: APPLICATION OF RIP RAP TO THE 100-N AREA RIVERBANK FEDERAL AND STATE INDIAN RESERVATIONS AND INDIAN TRUST AREAS FLOOD INSURANCE STUDY: BENTON COUNTY WASHINGTON UNINCORPORATED AREAS HANFORD QUARTERLY HANFORD REACH OF THE COLUMBIA RIVER: COMPREHENSIVE RIVER CONSERVATION HANFORD REACH STUDY REPORT HANFORD SITE TIGER TEAM ASSESSMENT ACTION PLAN HANFORD SURVEY: SAMPLING AND ANALYSIS REQUIREMENTS HYDRAULIC DESIGN OF FLOOD CONTROL CHANNELS LIST OF PREVIOUSLY INSTALLED PUMPS THAT HAD TO BE PULLED, REWIRED, & LOWER COLUMBIA RIVER STANDARD PROJECT FLOOD AND PROBABLE MAXIMUM FLOOD LOWER MONUMENTAL LOCK AND DAM, SNAKE RIVER, WASHINGTON, OREGON, AND MAXIMUM PERMISSIBLE BODY BURDENS AND MAXIMUM PERMISSIBLE CONCENTRATIONS NOTES ON GEOLOGY AND GROUND-WATER CHARACTERISTICS OF THE HANFORD PRIEST RAPIDS DAM STATISTICAL DATA RADIATION RADIOACTIVE IRRADIATED: A GLOSSARY FOR THE INTERESTED LAY RADIONUCLIDE DISTRIBUTION AND TRANSPORT IN TERRESTRIAL AND AQUATIC RCRA/CERCLA UPDATE RCRA/CERCLA UPDATE RCRA/CERCLA UPDATE RCRA/CERCLA UPDATE RCRA/CERCLA UPDATE RCRA/CERCLA UPDATE RCRA/CERCLA UPDATE RELATIONSHIP BETWEEN FUEL THROUGHOUT, STREAM FLOW, AND INPUT INVENTORY STATUS OF IODINE-129 IN EFFLUENTS, GROUNDWATER AND THE ENVIRONMENT AT STRATEGY FOR OCRWM TO PROVIDE TRAINING ASSISTANCE TO STATE, TRIBAL, AND SUMMARY OF RESULTS, CHIEF JOSEPH DAM CULTURAL RESOURCES PROJECT, SUMMARY RECORD OF WATER-LEVEL MEASUREMENTS MADE IN THE DEEP PIEZOMETERS TRANSCRIPT OF HEDR TECHNICAL STEERING PANEL MEETING, SEATTLE, WA TREATY BETWEEN THE UNITED STATES AND THE YAKIMA NATION OF INDIANS TREATY WITH THE NEZ PERCES, 1855 TREATY WITH THE WALLA WALLA, CAYUSE, ETC., 1855 TRI-CITIES ECONOMY REVIEW & OUTLOOK -- UPDATE UPPER COLD CREEK SYNCLINE HYDROLOGIC BARRIER--CURRENT KNOWLEDGE AND WASHINGTON STATE ENVIRONMENTAL RADIATION PROGRAM: 29TH ANNUAL REPORT WILD AND SCENIC RIVERS ACT OF 1968	16 USC 1271

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	FISH AND WILDLIFE COORDINATION ACT	16 USC 661-666
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	CLEAN WATER ACT OF 1972 (FEDERAL WATER POLLUTION CONTROL ACT, AS AMENDED	33 USC 1251
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	NATIONAL INTERIM PRIMARY DRINKING WATER REGULATIONS	40 CFR 141
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	REGULATIONS FOR IMPLEMENTING THE PROCEDURAL PROVISIONS OF THE NATIONAL	40 CFR 700-1517.7
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	ATLANTIC RICHFIELD HANFORD COMPANY MONTHLY REPORT: SEPTEMBER, 1971	ARH-1909 A DEL
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	CONSENT ORDER RELATING TO DISCHARGE OF LIQUID EFFLUENTS AT HANFORD	DE 91NM-177
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	HANFORD SITE ANNUAL DANGEROUS WASTE REPORT CALENDAR YEAR 1992	DOE/RL-93-07
	HANFORD MISSION PLAN, VOLUME 1: SITE GUIDANCE	DOE/RL-93-08
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	FEASIBILITY STUDY REPORT FOR THE 200-BP-1 OPERABLE UNIT	DOE/RL-93-35 REV 1
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	OCRWM BULLETIN -- MONTHLY NEWSLETTER	DOE/RW-0229
	OCRWM BULLETIN: MONTHLY NEWSLETTER	DOE/RW-0309P
	DRAFT MISSION PLAN AMENDMENT	DOE/RW-0316P
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	ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT FIVE-YEAR PLAN: FISCAL	DOE/S-00098P
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	ANNUAL REPORT OF OPERATING EXPERIENCE PERTINENT TO NUCLEAR SAFETY --	DUN-7545
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	RCRA INFORMATION BRIEF: RCRA CLEAN CLOSURE EQUIVALENCY DEMONSTRATIONS	EH-231-010/1291
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	CERCLA INFORMATION BRIEF: USE OF INSTITUTIONAL CONTROLS IN A CERCLA	EH-231-014/1292
	CERCLA INFORMATION BRIEF: EXECUTIVE ORDER 12580: SUPERFUND	EH-231-015/0593
	CERCLA INFORMATION BRIEF: PRELIMINARY ASSESSMENTS (PAS) UNDER CERCLA	EH-231-016/0593
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	RCRA INFORMATION BRIEF: RCRA AIR EMISSION STANDARDS FOR HAZARDOUS WASTE	EH-231-019/0193
	RCRA INFORMATION BRIEF: RCRA POST-CLOSURE PERMITS	EH-231-021/0593
	RCRA INFORMATION BRIEF: INSPECTIONS OF RCRA CONTAINER STORAGE AREAS	EH-231-033/0793
	QUARTERLY REPORT ON DOE'S NUCLEAR WASTE PROGRAM AS OF DECEMBER 31, 1986	GAO/RCED-87-95FS
	CONCENTRATION OF GROSS RADIOACTIVITY IN THE COLUMBIA RIVER	GEH-18774
	SUMMARY REPORT OF JOINT QUARTERLY MEETING--COLUMBIA RIVER ADVISORY GROUP	GEH-19226
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	100 AREA MONTHLY REPORTS 1948	HAN-45809
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	HANFORD WORKS MONTHLY REPORT JANUARY 1949	HW-12391 DEL
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